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Mission

Mission Statement
An Institution of Opportunity: YSU inspires individuals, enhances futures, and enriches lives.

As a student-centered university, Youngstown State University’s mission is to provide innovative lifelong learning opportunities that will inspire individuals, enhance futures and enrich lives. YSU inspires individuals by cultivating a curiosity for life-long learning; enhances the futures of our students by empowering them to discover, disseminate and apply their knowledge; and enriches the region by fostering collaboration and the advancement of civic, scientific, and technological development. YSU’s culture of enrichment flourishes in our diverse, accessible, and quality education.

Vision

Youngstown State University is where students thrive in their educational and career pursuits, where scholarship creates innovative solutions, and where community engagement is a cornerstone of collaboration that collectively contribute to the sustainable prosperity of the region and beyond.

Values

We—the faculty, staff, administrators, and students of Youngstown State University—hold the following values essential to achieving the mission and realizing the vision.

Centrality of Students – We put students first, fostering their holistic and lifelong success.

Excellence and Innovation – We bring academic excellence and innovation to learning and life for all stakeholders.

Integrity and Human Dignity – We root all behaviors, decisions and actions in the achievement of integrity, mutual respect, collegiality, equity and inclusion.

Collaboration and Public Engagement – We embrace collaboration and create innovative partnerships to foster sustainability and enrich or university, our culture, and region.

For more information, visit Youngstown State University Mission Statement (https://ysu.edu/mission/).

Historical Sketch

Youngstown State University traces its beginnings to a commercial law course offered by the Young Men’s Christian Association (YMCA) in 1908. The YMCA had offered high school level and vocational courses since 1888, but it wanted to meet the college-level needs of area residents in a society undergoing rapid industrialization and urbanization. The “Y” offered courses on law, business, and engineering, and in 1910, it even instituted a School of Law that granted no degree but prepared students to take the bar exam. In 1916, the YMCA incorporated all of its educational work under the Youngstown Association School.

By the early 1920s, the Ohio Board of Education granted the School of Law the power to confer the Bachelor of Science in Law degree, and in 1924 the School of Commerce and Finance the right to confer the bachelor’s degree in commercial science. The YMCA also offered courses to prepare teachers for certification, a program that evolved by 1927 into a separate school named Youngstown College and recognized by the State Department of Education. That same year, the school also established the College of Liberal Arts. Throughout the 1920s, the schools of law and commercial science were called
the Youngstown Institute of Technology, which began a move from downtown to the present location with the purchase of several mansions owned by the Wicks and other prominent Youngstown families.

In 1931, the YMCA constructed its first classroom building, the present-day Jones Hall, and appointed Howard Jones as the educational director. By the mid-1930s, the Board of Directors decided to incorporate with the official name of Youngstown College separate from the other "Y" educational efforts; they appointed Howard Jones as the first president, a position he held until 1966.

In 1944, the trustees of the Young Men's Christian Association transferred control of the institution to the members of the Corporation of Youngstown College, and in 1955 the corporation was rechartered as The Youngstown University. The University joined the Ohio system of higher education in September 1967 as Youngstown State University.

Dana's Musical Institute, founded in nearby Warren in 1869, became Dana's Musical Institute of Youngstown College in 1941. In 1946, the Engineering Department, organized several years before, became the William Rayen School of Engineering; two years later, the Business Administration Department became the School of Business Administration; and in 1981 the school name was changed to the Warren P. Williamson, Jr. School of Business Administration. In 1960, the Education Department became the School of Education.

The Graduate School and College of Applied Science and Technology were created in 1968, and, in 1974, the College of Creative Arts and Communication was established.

In 1972, Youngstown State University, with the University of Akron and Kent State University formed a consortium to sponsor the Northeastern Universities College of Medicine, which enrolled its first students in 1975.

In 1991 the engineering technology departments separated from CAST and joined the new College of Engineering and Technology; the remaining departments formed the new College of Health and Human Services.

In 2007, the Rayen College of Engineering and Technology incorporated the science and mathematics departments from the College of Arts and Sciences. This reorganization linked science, technology, engineering, and mathematics in one academic college, and the humanities and social sciences in another college.

Youngstown State University now consists of the College of Graduate Studies and five undergraduate academic colleges:

- Beeghly College of Liberal Arts, Social Sciences, and Education
- Bitonte College of Health and Human Services
- Cliffe College of Creative Arts
- College of Science, Technology, Engineering, and Mathematics
- Williamson College of Business Administration

Youngstown State University offers certificate and degree programs at many levels to meet learners’ needs. Excellent associate, bachelor’s, master’s, educational specialist and doctoral degree programs are available.

**Academic Organization**

The Academic Division is organized in the following units:

- **Beeghly College of Liberal Arts, Social Sciences, and Education** ([https://ysu.edu/academics/beeghly-college-liberal-arts-social-sciences-education/](https://ysu.edu/academics/beeghly-college-liberal-arts-social-sciences-education/))
- **Cliffe College of Creative Arts** ([https://ysu.edu/academics/cliffe-college-creative-arts-and-communication/](https://ysu.edu/academics/cliffe-college-creative-arts-and-communication/))
- **Williamson College of Business Administration** ([http://www.ysu.edu/academics/williamson-college-business-administration/](http://www.ysu.edu/academics/williamson-college-business-administration/))
- **College of Graduate Studies** ([http://www.ysu.edu/academics/college-graduate-studies/](http://www.ysu.edu/academics/college-graduate-studies/))
- **Honors College** ([http://www.ysu.edu/academics/honors-college/](http://www.ysu.edu/academics/honors-college/))

Each academic college, along with its undergraduate major programs and curriculum, is described in the "Colleges and Programs" section of this catalog. The post-baccalaureate programs of the College of Graduate Studies are set forth in the Graduate Catalog ([http://catalog.ysu.edu/graduate/](http://catalog.ysu.edu/graduate/)).

Virtually all departments offer courses during daytime and evening hours, and several majors may be obtained by students who are able to attend only during the evening. Several degree programs are also available online. To accommodate working students, classes are offered on a flexible schedule – from classes that meet five days a week to classes that meet only one day a week. The main academic year runs from late August into May in two 16-week semesters. During the summer term, courses are offered for one 14-week session and two seven-week sessions.

**Accreditation**

Youngstown State University is accredited by the Higher Learning Commission (HLC) (telephone: (312) 263-0456 or (800) 621-7440). The HLC is an independent corporation that was founded in 1895 as one of six regional institutional accreditors in the United States. Please write to info@hlcommission.org (hlcommission.org) if you have any questions.

For more information about YSU’s accreditation, visit the Statement of Accreditation Status ([https://www.hlcommission.org/component/directory/?Action=ShowBasic&Itemid=&nstid=1613](https://www.hlcommission.org/component/directory/?Action=ShowBasic&Itemid=&nstid=1613)). Academic programs within the individual colleges may be further accredited by their respective professional bodies. Those accreditations are listed in each college section.

**Contact for Questions/Concerns**

Office: Academic Affairs  
Location: Tod Hall  
Website: [https://ysu.edu/provost](https://ysu.edu/provost)

**Assessment**

**Statement on Diversity, Equity and Inclusion**

The Office of Diversity, Equity, and Inclusion (DEI) serves the Youngstown State University community as an educational resource enabling students, staff, and faculty to gain a better understanding of what it means to live in a pluralistic society. We promote this understanding through the development of workshops and collaborations. Providing educational resources based upon research studies and real-life experiences, we are here to help students develop a connection to campus while supporting staff and faculty as they develop an inclusive mindset. DEI is also where students can find several mentoring programs. Faculty and staff collaborate in these programs while learning more about the students who choose to come to YSU. The DEI staff has the ability to assist our community members in navigating difficult conversations.

**Contact for Questions/Concerns**

Office: Diversity, Equity, and Inclusion  
Location: Jones Hall 1004  
Website: [https://ysu.edu/office-diversity-equity-and-inclusion](https://ysu.edu/office-diversity-equity-and-inclusion)
Statement on Equal Opportunity and Non-Discrimination

Youngstown State University Non-Discrimination Statement: Youngstown State University does not discriminate on the basis of race, color, national origin, sex, sexual orientation, gender identity and/or gender expression, disability, age, religion, veteran/military status, or any other status protected by law, in its programs and activities.

OFFICE OF EQUAL OPPORTUNITY AND POLICY DEVELOPMENT

The Office of Equal Opportunity and Policy Development is responsible for the review and development of University policies and for University compliance with state and federal equal opportunity laws and regulations, including Title VII of the Civil Rights Act of 1964. The office works to develop and implement the University’s Affirmative Action plan, develops University policies, provides training and educational programs in the areas of affirmative action, equal employment, discrimination, and harassment, and investigates complaints of discrimination and harassment based on protected class status.

Director, Equal Opportunity and Policy Development:
Mark Weir
One University Plaza, Tod Hall, Room 301
Youngstown, Ohio 44555
330-941-2216
Fax: 330-941-2394
mweir@ysu.edu

TITLE IX OFFICE

The Title IX office oversees compliance with Title IX of the Education Amendments of 1972. The office provides training and educational programs in the areas of consent, sexual assault, and relationship violence, and investigates complaints of discrimination and harassment based on sex or gender, whether involving students, faculty, staff, or others. This includes complaints of sex or gender bias, sexual harassment, stalking, intimate partner violence, domestic violence, sexual exploitation, or other sexual misconduct. The Title IX Coordinator assists complainants in understanding reporting options, resources, and implements supportive measure, as needed.

Title IX:
One University Plaza, Tod Hall, Room 301
Youngstown, Ohio 44555
330-941-4629
Fax: 330-941-2394
TitleIX@ysu.edu (titleix@ysu.edu)

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE

Students seeking information about or access to accommodations or support for a documented disability should contact the Disability Services office. Employees of the University and others seeking such information or resources should contact the Human Resources Title II/Section 504 Coordinator.

Assistant Director, Disability Services:
Gina McGranahan
One University Plaza, Kilcawley Center, Room 2082
Youngstown, Ohio 44555
330-941-2090
glmcranahan@ysu.edu

Title II/Section 504 Coordinator:
Stacey Luce
One University Plaza, Tod Hall, Room 312
Youngstown, Ohio 44555
330-941-1322
seluce@ysu.edu (seluce@ysu.edu)

Statement on Health and Safety

Youngstown State University is committed to the health and safety of its employees, students and guests. The University will develop and maintain programs with the intent of preventing safety hazards and promoting health on our campus. The programs developed shall be compliant with, but not limited to, all federal, state and local regulations applicable to safety, health and the environment. All University-related facilities, activities, and programs shall be designed, conducted, and operated in a manner that reasonably protects human health and safety.

DEPARTMENTS:
The Campus Safety Division includes the University Police and the Department of Environmental Occupational Health and Safety (EOHS).

EOHS RESPONSIBILITIES:
EOHS is responsible for developing and implementing appropriate environmental health and safety programs and training. EOHS regularly consults with the University’s Office of General Counsel to ensure that the University maintains compliance with federal, state and local legislation that affects the safety of the campus environment.

Contact for Questions/Concerns
Office: Department of Environmental Occupational Health and Safety
Location: Cushwa Hall
Website: https://ysu.edu/eohs

Academic Policies, Rights, and Responsibilities

Academic Advising

Academic Advising Mission

Academic advising at YSU is an integrated teaching and learning process built upon an ongoing interactive partnership between students and their advisors.

Academic advising supports students in developing a balanced scholastic plan that will provide them with a solid foundation for academic success and empower them to take responsibility for achieving their life-long educational and career goals.

(Adopted February 2010)

Who Requires Academic Advising?

Advisement is required for the following students:

• Freshmen (fewer than 30 hours)
• Post-secondary enrollment (College Credit Plus)
• Students not in good standing (warning, probation)
• First semester transfer students
• Returning former students
• Athletes

Reasons to See an Advisor

Academic advisors strive to support students as they navigate their way through college so they can reach their academic goals. Here are a few reasons why you might want to make an appointment to see an academic advisor:

• Need help understanding requirements to finish your degree
• Need an explanation of YSU academic policies and/or regulations
• Have questions about majors and/or minors
• Need assistance in the creation of an academic plan toward graduation
• Have academic difficulties and want to know where to find help
• Want to prepare for the application process to restricted majors such as nursing, dental hygiene, respiratory care, and social work
• Feel confused, overwhelmed, or generally unsure about what you should be doing
• Want to keep on the path to graduation

What You Will Learn from Meeting with Your Advisor

• You will gain an understanding of the requirements of your major
• You will learn about the university requirements to obtain a degree, including:
  • General Education requirements
  • Upper division requirements
  • Total hour requirements
  • Minor requirements
• You will be informed of relevant university policies and learn to navigate them, including:
  • Changing majors
  • Withdrawing from classes
  • Warning, probation, and suspension policies
  • Course repetition
  • Degree audit
  • Application for graduation audit
  • Graduation application
• You will learn about and be referred to relevant campus resources (as needed)
• You will learn to make short-term and long-range plans for your college career that will supplement your career and life goals
• You will understand how your curriculum and college experiences relate to your future career goals

Advising Offices

Each academic college assigns advisors differently. Students should contact the office below in which their major lies to find their advisor.

• Beeghly College of Liberal Arts, Social Sciences and Education (BCLASSE) Advisement Beeghly 330-941-3268; Advisement Debartolo 330-941-3413
• Bitonte College of Health and Human Services (BCHHS), Cushwa Hall, Room 2104, 330-941-1820
• Bitonte College of Creative Arts (CCCA), Bliss Hall, Room 2324, 330-941-3625
• College of Science, Technology, Math, and Engineering (STEM), Moser Hall, Room 2325, 330-941-2512
• Cliffe College of Creative Arts (CCCA), Bliss Hall, Room 2324, 330-941-3625
• College of Science, Technology, Math, and Engineering (STEM), Moser Hall, Room 2325, 330-941-2512
• Williamson College of Business Administration (WCBA), Student Services Center, Room 1115, 330-941-2376
• Office of Career Exploration and Development (for students in Exploratory major), Jones Hall, Room 2002, 330-941-3515
• First Year Student Services (for students in YSU 1500), Jones Hall, Room 3032, 330-941-2131
• Strong Start Office (for students in SS 1500), Kilcawley Center West, 330-941-3538

What to Expect from Your Academic Advisor

Your academic advisor will:

• Assist you in exploring areas of study on your way to choosing your major
• Encourage and support you in establishing your goals and tracking your progress toward those goals
• Provide a safe setting for you to share your thoughts, goals, and concerns
• Listen to your questions and concerns and provide resources and referrals as needed in order to facilitate your college experience
• Understand and explain YSU policies and procedures, general education requirements, academic programs, and student services
• Maintain confidentiality

What Your Academic Advisor Expects from You

In order to have a successful advising experience, you must:

• Accept responsibility for your decisions and actions
• Research your areas of interest including YSU programs and degree requirements
• Plan ahead (schedule appointments early and have the courtesy to cancel or reschedule as necessary)
• Come prepared for your advising appointment with your questions and concerns
• Follow up on referrals and inform your academic advisor of the outcome of the referrals
• Use all available campus services as necessary (Math Assistance Center, Writing Assistance Center, Counseling Services, Resch Academic Success Center, Career Development and Exploration)

Undergraduate Preparation for Post-Baccalaureate Degrees

Medical schools have specific requirements for pre-medical study, and many law, theological, technological, and graduate schools have curriculum requirements for those seeking admission. Anyone wishing to enter a professional, technological, or graduate school of any kind should consult advisors in the appropriate undergraduate college of this university as early as possible. Such special needs can usually be met within the degree requirements of Youngstown State University, but the proper selection of courses may have to begin in the first year.

Academic Calendar

Fall 2021

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 30</td>
<td>Mon.</td>
<td></td>
<td>Classes begin – full term and first 8-weeks</td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Thurs.</td>
<td></td>
<td>Last day to add classes or change grading option – first 8-weeks</td>
</tr>
<tr>
<td>Sept. 5</td>
<td>Sun.</td>
<td></td>
<td>Last day for 100% refund - first 8-weeks</td>
</tr>
<tr>
<td>Sept. 6</td>
<td>Mon.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>Tues.</td>
<td></td>
<td>Last day to add classes or change grading option – full term</td>
</tr>
<tr>
<td>Sept. 12</td>
<td>Sun.</td>
<td></td>
<td>Last day for 100% refund – full term</td>
</tr>
<tr>
<td>Date</td>
<td>Day</td>
<td>Time</td>
<td>Event</td>
</tr>
<tr>
<td>----------</td>
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<td>---------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Oct. 1</td>
<td>Fri.</td>
<td></td>
<td>Last day to withdraw with a grade of ‘W’ – first 8-week term</td>
</tr>
<tr>
<td>Oct. 8</td>
<td>Fri.</td>
<td></td>
<td>Last day to apply for fall term graduation</td>
</tr>
<tr>
<td>Oct. 23</td>
<td>Sat.</td>
<td></td>
<td>First eight-week term ends</td>
</tr>
<tr>
<td>Oct. 25</td>
<td>Mon.</td>
<td></td>
<td>Classes begin – second 8-weeks</td>
</tr>
<tr>
<td>Oct. 28</td>
<td>Thurs.</td>
<td></td>
<td>Last day to add classes or change grading option – second 8-weeks</td>
</tr>
<tr>
<td>Oct. 31</td>
<td>Sun.</td>
<td></td>
<td>Last day to withdraw with a grade of ‘W’ – full term</td>
</tr>
<tr>
<td>Nov. 11</td>
<td>Thurs.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Nov. 24</td>
<td>Wed.</td>
<td></td>
<td>No classes scheduled – University offices open</td>
</tr>
<tr>
<td>Nov. 25</td>
<td>Thurs.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Nov. 26</td>
<td>Fri.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Nov. 26</td>
<td>Fri.</td>
<td></td>
<td>Last day to withdraw with a grade of ‘W’ – second 8-weeks</td>
</tr>
<tr>
<td>Nov. 29</td>
<td>Mon.</td>
<td>6:00 A.M.</td>
<td>Thanksgiving academic break ends – classes resume</td>
</tr>
<tr>
<td>Dec. 13</td>
<td>Mon.</td>
<td></td>
<td>Final examinations begin</td>
</tr>
<tr>
<td>Dec. 18</td>
<td>Sat.</td>
<td></td>
<td>Final examinations end</td>
</tr>
<tr>
<td>Dec. 18</td>
<td>Sat.</td>
<td></td>
<td>Classes end – full term, second 8-weeks</td>
</tr>
<tr>
<td>Dec. 19</td>
<td>Sun.</td>
<td></td>
<td>Commencement</td>
</tr>
</tbody>
</table>

### Spring 2022

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 23</td>
<td>Thurs.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Dec. 24</td>
<td>Fri.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Jan. 3</td>
<td>Mon.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Jan. 10</td>
<td>Mon.</td>
<td></td>
<td>Classes begin – full term and first 8-weeks</td>
</tr>
</tbody>
</table>

### Summer 2022

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 16</td>
<td>Mon.</td>
<td></td>
<td>Classes begin – full term, first 7-week</td>
</tr>
<tr>
<td>May 19</td>
<td>Thurs.</td>
<td></td>
<td>Last Day to add classes or change grading option – first 7-week</td>
</tr>
<tr>
<td>Date</td>
<td>Day</td>
<td>Event</td>
<td>Time</td>
</tr>
<tr>
<td>------------</td>
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<td>----------------------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>May 19</td>
<td>Thurs.</td>
<td>Last day to add classes or change grading option – full term</td>
<td></td>
</tr>
<tr>
<td>May 22</td>
<td>Sun.</td>
<td>Last day for 100% refund – first 7-weeks</td>
<td></td>
</tr>
<tr>
<td>May 29</td>
<td>Sun.</td>
<td>Last day for 100% refund – full term</td>
<td></td>
</tr>
<tr>
<td>May 30</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>June 12</td>
<td>Sun.</td>
<td>Last day to withdraw with a grade of 'W' – first 7-weeks</td>
<td></td>
</tr>
<tr>
<td>June 20</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>June 24</td>
<td>Fri.</td>
<td>Last day to apply for summer term graduation</td>
<td></td>
</tr>
<tr>
<td>July 2</td>
<td>Sat.</td>
<td>Classes end – first 7-weeks (final exams are given during last class session)</td>
<td></td>
</tr>
<tr>
<td>July 4</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>July 5</td>
<td>Tues.</td>
<td>Classes begin – second 7-week term</td>
<td></td>
</tr>
<tr>
<td>July 11</td>
<td>Mon.</td>
<td>Last day for 100% refund - Second 7-Weeks</td>
<td></td>
</tr>
<tr>
<td>July 12</td>
<td>Tues.</td>
<td>Last day to withdraw with a grade of 'W' – full summer term</td>
<td></td>
</tr>
<tr>
<td>Aug 1</td>
<td>Mon.</td>
<td>Last day to withdraw with a grade of 'W' – second 7-weeks</td>
<td></td>
</tr>
<tr>
<td>Aug. 20</td>
<td>Sat.</td>
<td>Full Term, second 7-weeks ends (final exams are given during last class session)</td>
<td></td>
</tr>
</tbody>
</table>

**Accelerated Online Program - Spring 2022**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 5</td>
<td>Wed.</td>
<td>First 7-weeks last day to add classes or change grading option</td>
<td></td>
</tr>
<tr>
<td>Jan. 10</td>
<td>Mon.</td>
<td>First 7-weeks term begins</td>
<td></td>
</tr>
<tr>
<td>Jan. 16</td>
<td>Sun.</td>
<td>First 7-weeks last day for 100% refund</td>
<td></td>
</tr>
<tr>
<td>Jan. 17</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>Feb. 6</td>
<td>Sun.</td>
<td>First 7-weeks last day to withdraw with a 'W'</td>
<td></td>
</tr>
<tr>
<td>Feb. 26</td>
<td>Sat.</td>
<td>First 7-weeks term ends</td>
<td></td>
</tr>
<tr>
<td>Mar. 9</td>
<td>Wed.</td>
<td>Second 7-weeks last day to add classes or change grading option</td>
<td></td>
</tr>
<tr>
<td>Mar. 14</td>
<td>Mon.</td>
<td>Second 7-weeks term begins</td>
<td></td>
</tr>
<tr>
<td>Mar. 20</td>
<td>Sun.</td>
<td>Second 7-weeks last day for 100% refund</td>
<td></td>
</tr>
<tr>
<td>Apr. 10</td>
<td>Sun.</td>
<td>Second 7-weeks last day to withdraw with a 'W'</td>
<td></td>
</tr>
</tbody>
</table>

**Accelerated Online Program - Fall 2021**

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aug. 30</td>
<td>Mon.</td>
<td>First 7-weeks term begins</td>
<td></td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Thurs.</td>
<td>First 7-weeks last day to add classes or change grading option</td>
<td></td>
</tr>
<tr>
<td>Sept. 5</td>
<td>Sun.</td>
<td>First 7-weeks last day for 100% refund</td>
<td></td>
</tr>
<tr>
<td>Sept. 6</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>Sept. 26</td>
<td>Sun.</td>
<td>First 7-weeks last day to Withdraw with a Grade of 'W'</td>
<td></td>
</tr>
</tbody>
</table>
Academic Standing and Dismissal

Academic standing is based upon the total earned credit hours completed, including accepted transfer hours. Therefore, all new undergraduates begin with an enrollment status of eligible and earn an academic standing after their first semester with earned credits. Four categories of academic standing are established: Good, Warning, Probation, and Suspension. These categories are intended to signify a student’s progress toward graduation or to provide an opportunity for making improvements and achieving academic success. They also determine eligibility to enroll in courses at the university; however, they do not determine eligibility to enroll in specific programs, schools or colleges at the institution. In addition, an undergraduate student’s standing and eligibility to enroll in courses does not ensure satisfactory academic progress (SAP) for financial aid purposes. Students who receive financial aid should review the Financial Aid and Scholarship (p. 50) section of the catalog for the SAP policy.

Good Standing:

• Students in Good Standing have earned the required cumulative grade point average of 2.00 or higher.
• Students’ enrollment status is marked eligible and they may continue to enroll in courses.

Warning:

• Students on Academic Warning have earned a cumulative grade point average below 2.00. This indicates that grade standards consistent with graduation requirements are not being met.
• Students must receive advisor approval of course load prior to enrolling. Once approved, enrollment status is marked eligible and they may continue to enroll in courses and University activities.
• Students who are employed on campus are required to establish an action plan for academic success and have a letter of support from a supervisor as per the existing student employment policy.
• Students who begin a semester on Academic Warning and earn a cumulative grade point average of 2.00 or higher at the end of the semester will return to Good Standing.
• Students who begin a semester on Academic Warning and continue to earn a cumulative grade point average below 2.00 at the end of the semester will move to the next standing status (Probation).

Probation:

• Students on Academic Probation have continued to earn a cumulative grade point average below 2.00. This continues to indicate that grade standards consistent with graduation requirements are not being met.
• Students must receive advisor approval of course load prior to continuing enrollment. Once approved, enrollment status is marked eligible and they may continue to enroll in courses.
• Students who begin a semester on Academic Probation and earn a cumulative grade point average of 2.00 or higher at the end of the semester will return to Good Standing.
• Students who begin a semester on Academic Probation and had earned a cumulative grade point average below 2.0 but have made substantial improvement by earning a term grade point average of 2.00 or higher will be continued on Academic Probation even though the student’s cumulative grade point average does not reach the required minimum.
• Students who begin a semester on Academic Probation, had earned a cumulative grade point average below 2.0 and have not made substantial improvement at the end of the probation term will move to the next standing status (suspension).

Suspension:

SAP - Summer 2022

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 11</td>
<td>Wed.</td>
<td>First 7-weeks last day to add classes or change grading option</td>
<td></td>
</tr>
<tr>
<td>May 16</td>
<td>Mon.</td>
<td>First 7-weeks term begins</td>
<td></td>
</tr>
<tr>
<td>May 22</td>
<td>Sun.</td>
<td>First 7-weeks last day for 100% refund</td>
<td></td>
</tr>
<tr>
<td>May 23</td>
<td>Mon.</td>
<td>First 7-weeks first day to withdraw with a 'W'</td>
<td></td>
</tr>
<tr>
<td>May 30</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>June 12</td>
<td>Sun.</td>
<td>First 7-weeks last day to withdraw with a 'W'</td>
<td></td>
</tr>
<tr>
<td>June 20</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>June 29</td>
<td>Wed.</td>
<td>Second 7-weeks last day to add classes or change grading option</td>
<td></td>
</tr>
<tr>
<td>July 2</td>
<td>Sat.</td>
<td>First 7-weeks term ends</td>
<td></td>
</tr>
<tr>
<td>July 4</td>
<td>Mon.</td>
<td>Legal holiday – University closed</td>
<td></td>
</tr>
<tr>
<td>July 5</td>
<td>Tues.</td>
<td>Second 7-weeks term begins</td>
<td></td>
</tr>
<tr>
<td>July 11</td>
<td>Mon.</td>
<td>Second 7-weeks last day for 100% refund</td>
<td></td>
</tr>
<tr>
<td>July 12</td>
<td>Tues.</td>
<td>Second 7-weeks first day to withdraw with a 'W'</td>
<td></td>
</tr>
<tr>
<td>Aug. 1</td>
<td>Mon.</td>
<td>Second 7-weeks last day to withdraw with a 'W'</td>
<td></td>
</tr>
<tr>
<td>Aug. 20</td>
<td>Sat.</td>
<td>Second 7-weeks term ends</td>
<td></td>
</tr>
</tbody>
</table>

Academic Eligibility

Academic Classification

All students working for any undergraduate degree conferred by this university are ranked in classes, by semester hours completed, as follows:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Semester Hours of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>0-29</td>
</tr>
<tr>
<td>Sophomore</td>
<td>30-59</td>
</tr>
<tr>
<td>Junior</td>
<td>60-89</td>
</tr>
<tr>
<td>Senior</td>
<td>90 or more</td>
</tr>
</tbody>
</table>

For purposes of satisfying course prerequisites, the term “senior standing” may be defined by reference to the specified curricula of a given school or college, if it provides detailed programs leading to the attainment of a degree. A student who has completed a four-year degree and who continues undergraduate enrollment is classified as post-baccalaureate.
• Students on Academic Suspension have continued to earn a cumulative grade point average below 2.00 and are now required to be dismissed from the university for a period of time. The period of time is at the college dean's discretion; students should contact the dean's office of their major for time clarification.

• Students on Academic Suspension who have registered for a future semester will be administratively withdrawn from all classes by the Office of the Registrar and will receive notification of their academic standing via email and U.S. postal mail.

Can a student return after an Academic Suspension?

A student may return to the university after Academic Suspension if granted reinstatement status. A reinstatement after suspension is determined by the dean (or designee) of the college from which the student was suspended, or, if the student wishes to change majors/colleges, by the dean of the new college. Exceptions to the reinstatement policy may be granted by a dean.

When a student is granted reinstatement, their academic standing is reset to Academic Probation. All academic probation standards listed above apply for the term the student is reinstated. Therefore, a second suspension will have a duration of at least one full calendar year before reinstatement can be granted again. Students should not expect to be reinstated after two suspensions unless the dean agrees that extraordinary conditions or circumstances have occurred. Additional suspensions will have durations of at least two years.

Can a student be dismissed/suspended for other reasons?

A student may be dismissed from the university for a period of time or permanently for reasons other than those listed above for Academic Suspension.

• Students admitted to the university as a Conditional Admit or Strong Start student can be dismissed from the university for not meeting the requirements of those admission statuses. Students admitted in those categories should reach out to the Resch Academic Success Center (https://ysu.edu/academic-success-center/) for information on dismissal and reinstatement processes.

• Students who fail to meet their financial obligations to the university can be financially suspended from the university until all financial responsibilities are met. Students who have been financially suspended should reach out to the Office of the University Bursar for information on debt consequences, obligations, and reinstatement processes.

• Students who have been found to violate the Student Code of Conduct may be suspended or expelled from the university. Students who are responsible for a violation should reach out to the Office of Community Standards and Conduct (https://ysu.edu/student-conduct/) for information on their status.

CONTACT FOR QUESTIONS/CONCERNS
Office: Penguin Service Center and Record's Office
Location: Meshel Hall
Website: https://ysu.edu/penguin-service-center and https://ysu.edu/registrars-office

Academic Grievances

The Student Academic Grievance Procedure provides students with a formal channel through which complaints concerning academic matters may be heard. A student must attempt to resolve the complaint by first discussing the issue with the faculty member. If the complaint is not resolved at that level, the student should direct their complaint to the department chair and, if the complaint is still not resolved, to the dean of their college.

Complaints not resolved following a discussion with the dean will be considered by the associate provost for academic administration or designee, who will serve as judicial administrator. Upon their review, the judicial administrator determines whether the complaint is grievable. If the complaint is grievable, it is presented to the Student Academic Grievance Subcommittee. Per the YSU-OEA Agreement, Article 19.2, academic matters that may be grieved are the following:

• Material deviation from the instructor’s policy on sanctions for academic dishonesty, as indicated on the course syllabus, to the detriment of the individual student, or in disputed cases of academic dishonesty.

• Material breach of faculty contractual obligations as specified in the article on Teaching Rights and Responsibilities (YSU-OEA Agreement, Article 27), to the detriment of the individual student or the entire class.

• Material deviation from the grading scale, grading criteria, assignment specifications, or grade weight distribution indicated on the course syllabus or other course materials, to the detriment of the individual student or the entire class.

Other areas of contention between a student and a faculty member may not be grieved under this section. The student should contact the department chair of the faculty member's department or the dean of the college housing the faculty member's department for further advisement in these situations.

Students wishing to file a grievance should contact the administrative assistant in the Office of Academic Affairs for an appropriate referral. A Brief Guide to Student Academic Grievances is available for further information about this process.

A digital copy of the Student Academic Grievance Form is available for download or you can use the electronic submission form. An electronic copy of the Student Academic Grievance Procedure is also available for review.

Contact for Questions/Concerns
Office: Office of Community Standards and Student Conduct
Location: Kilcawley Center
Website: https://ysu.edu/student-conduct

Academic Honors

Honors are bestowed at the university as recognition of outstanding academic achievement and as a means to further encourage student success and sound scholarship. They are awarded to every undergraduate student attaining the required eligibility requirements. For some of the honors listed below, students may receive certificates of recognition or honor cords for commencement ceremonies.

Dean's List

Each academic college recognizes its finest students by naming them to the Dean's List. The students eligible for this award are full-time undergraduate students who have earned at least a 3.4 average for not less than 12 semester hours of credit in the semester just ended. This honor is only awarded at the end of fall and spring semesters. Included in the list at the end of spring term are those part-time students who have earned at least a 3.4 average and accumulated a minimum of 12 semester hours of credit combined for the fall and spring terms.

Courses with grades of I, AU, CR, CRX and PR do not count toward the minimum 12 hours requirement, but do not disqualify, as long as the student has an additional 12 hours or more of earned credit at the time of the Dean's List calculation. Students who receive grades of D, F, or NC are automatically ineligible for Dean's List recognition.

Courses that do not count toward meeting eligibility requirements are:

• ENGL 1509, 1512, 1539, 1540
• RSS 1510 A, B, C
• MATH 1500, 1501, 1502, 1503, 1504, 1507
Courses at the 6900 level or above will count toward meeting the Dean's List eligibility requirements.

Recipients receive a certificate from their academic college and are officially announced on the YSU Merit Page website. ([https://ysu.meritpages.com/updates/?c=1](https://ysu.meritpages.com/updates/?c=1))

**President's List**

The university recognizes its top students by naming them to the President's List. The students eligible for this award are full-time undergraduate students who have earned a 4.0 grade point average for not less than 12 semester hours of credit in the semester just ended. This honor is only awarded at the end of the fall and spring semesters. Included in the list at the end of spring term are those part-time students who have earned a 4.0 grade point average and accumulated a minimum of 12 semester hours of credit combined for the fall and spring terms.

Recipients receive a certificate from the Office of the President and are officially announced on the YSU Merit Page website. ([https://ysu.meritpages.com/updates/?c=1](https://ysu.meritpages.com/updates/?c=1))

**Graduation with Academic Distinction**

Students graduating with a baccalaureate degree who rank high scholastically are awarded Latin Scholaric Distinctions at the commencement exercise, as follows:

- *Summa Cum Laude*: Awarded to those who attain a grade point average of 3.8 or higher
- *Magna Cum Laude*: Awarded to those who attain a grade point average of less than 3.8 but not less than 3.6
- *Cum Laude*: Awarded to those who attain a quality point average of less than 3.6 but not less than 3.4

**Graduation with Honors**

Students graduating with an associate degree who rank high scholastically are awarded special honors at the commencement exercise, as follows:

- Those who attain a grade point average of 3.7 or higher are granted their degrees with **High Honors**.
- Those who attain a grade point average of less than 3.7 but not less than 3.4 are granted their degrees with **Honors**.

A student who has processed an approved Academic Forgiveness is ineligible for Latin distinctions or special honors. All YSU grades will be counted in determining honors for graduation; this includes those grades deducted from accumulative totals as a result of an approved *Repetition Form*. (See Academic Forgiveness and Repetitions under Grading Methods and Procedures (p. 26).)

Transfer students who are baccalaureate degree candidates must have at least 60 semester hours of credit at Youngstown State University, or those who are associate degree candidates must have at least 40 semester hours of credit at Youngstown State University to be eligible for academic distinction or honors. In computing the required grade point averages, only university credit is considered; no transfer credit is included in the calculation.

**Other Awards and Honors**

Other accolades in recognition of outstanding academic achievement and service are presented through the various colleges and departments.

**Contact for Questions/concerns**

Office: Office of Academic Affairs  
Location: Tod Hall  
Website: [https://ysu.edu/provost](https://ysu.edu/provost)

**Academic Integrity**

Academic integrity is essential to the educational process and serves to uphold the educational mission of the university. Therefore, all members of the university community have a responsibility for maintaining high standards of honesty and ethical practice with regards to their academic endeavors. Students should consult with their instructor if they are not sure what may constitute a violation of the Academic Integrity policy. The full policy can be found in Article III. 1. of *The Student Code of Conduct*.

Although instructors are responsible for taking all reasonable precautions to limit the possibility of students violating the Academic Integrity policy, students share in this responsibility and should report any suspected violations to the instructor.

After an instructor has identified a possible violation(s) of the Academic Integrity policy, they must notify the student of the allegation within two university working days via university email and invite the student to participate in an Academic Integrity Conference. The instructor and student may also hold the conference prior to email notification. The Academic Integrity Conference shall occur within five university working days of the email notification to the student.

If an instructor concludes that a student is responsible for a violation(s) of the Academic Integrity policy, they may impose a sanction, including the following:

- official warning
- lowering the grade on the exam, paper, or assignment in question
- lowering the student's final grade for the course in question
- requesting additional action from the Academic Grievance Subcommittee via a hearing

A complete description of the Academic Integrity process is detailed in Article V. of *The Student Code of Conduct*. However, it should be noted that a student can:

- accept the charge(s) and sanction(s) offered by the instructor, which they acknowledge by signing the Academic Integrity Form ([https://ysu.edu/sites/default/files/YSU2017AcademicIntegrityForm.pdf](https://ysu.edu/sites/default/files/YSU2017AcademicIntegrityForm.pdf))
- accept the charge(s), but decline the sanction(s) offered by the instructor, which they acknowledge will transition the case to the Academic Grievance Subcommittee for a hearing; the student will not sign the Academic Integrity Form in this case
- decline the charge(s) and the sanction(s) offered by the instructor, which they acknowledge will transition the case to Academic Grievance Subcommittee for a hearing; the student will not sign the Academic Integrity Form in this case

Regardless of if the student chooses to sign the Academic Integrity Form, any case in which the student may face removal from their academic program or college, or University Suspension or Expulsion, requires a hearing before the Academic Grievance Subcommittee to ensure due process for the student. A representative from Community Standards and Student Conduct must be present at such hearings to serve in an advisory capacity.

In situations where the student has a prior recorded violation of the Academic Integrity policy, an additional violation of the policy will require referral to Community Standards and Student Conduct for possible additional charges and sanctions.

*The Student Code of Conduct* is available online. A printed copy can be found in the annual student handbook.

**Contact for Questions/Concerns**

Office: Office of Community Standards and Student Conduct  
Location: Kilcawley Center
Accommodations for Students with Disabilities

The Resch Academic Success Center Accessibility Services addresses the needs of students with disabilities. Support for academic success includes:

- Serving as the gateway for accommodations for YSU students with disabilities
- Providing accommodation information
- Collaborating with faculty/staff regarding issues involving students with disabilities
- Arranging for classroom accommodations for students with disabilities to allow equal educational access
- Making campus referrals/connections

To inquire about receiving disability services, please contact the office at (330) 941-1372 (voice), (866) 757-1353 (video), or (330) 941-7470 (fax). A confidential appointment will be set up to discuss accommodation needs.

Contact for Questions/Concerns
Office: Resch Academic Success Center Accessibility Services
Location: Kilcawley Center Room 2082
Website: https://ysu.edu/center-for-student-progress/disability-services

Community Standards and Student Conduct

Students at YSU have an obligation to conduct themselves in a manner that is compatible with the university's purpose as an institution of higher education. The policies and regulations in The Student Code of Conduct (https://ysu.edu/student-conduct/code-conduct) have been established to ensure a positive educational experience for every student. Therefore, all students should take time to familiarize themselves with The Student Code of Conduct, residence hall policies, university lease agreements, student organization policies, and other related policies to ensure they are aware of both the expectations of them and the rights afforded to them as a member of the university community.

Students believed to be in violation of The Student Code of Conduct or other university policies will be referred to Community Standards and Student Conduct for a conduct conference and possible hearing. The student conduct process at YSU adheres to procedural due process and is intended to be part of the larger university educational process. Students found responsible for violations may be issued educational sanctions, fines, status changes, and restriction of privileges. In cases of repeated and/or egregious violations, suspension or expulsion may occur.

If a member of the university community needs to report a potential violation of The Student Code of Conduct, they may contact a staff member from Community Standards and Student Conduct, the Office of Housing & Residence Life, University Courtyards Apartments, Division of Student Experience, Youngstown State University Police Department, or they may submit a report online via the Community Standards and Student Conduct Reporting Form (https://cm.maxient.com/reportingform.php).

The Student Code of Conduct, Youngstown State University & Residence Life, University Courtyards Apartments, Division of Student Experience, Youngstown State University Police Department, or they may submit a report online via the Community Standards and Student Conduct Reporting Form (https://cm.maxient.com/reportingform.php?clientid=49559&override=yes&agreement=no).

More information can be found on the Community Standards and Student Conduct website (https://ysu.edu/student-conduct/).

Course Final Examination

All courses offered for credit shall include either a final examination given at the scheduled final examination date/time or a summative assessment. No deviation from the exam schedule, approved by Academic Senate, is authorized. Specific exceptions for certain courses may be granted by the instructor obtaining prior approval from the appropriate academic unit head (chair/dean). Students shall be informed of any such exceptions in the course syllabus. The final examination schedule and regulations listed below are also posted on the Office of the Registrar’s final exam website (https://ysu.edu/registrars-office/final-exam-schedule/).

- Final examinations (finals) are not to be given before the final examination period.
  - Finals for fall/spring full term courses are held during the sixteenth week of the semester.
  - Finals in any condensed parts of term for fall/spring courses are given on the last day the class meets, unless otherwise specified by the instructor.
  - Finals for all summer term courses are given on the last day the class meets, unless otherwise specified by the instructor.

- Full term finals are scheduled based on the start time and first day of the week the course is held during the semester. Therefore, in-person examinations must be held at the day/hour scheduled because the classroom may not be available at other times. It is recommended students confirm the date/time of their finals with the class instructors. The following exceptions apply for fall/spring full term courses:
  - Classes scheduled only one day or evening per week will meet at the time the class is scheduled, unless otherwise specified by the instructor.
  - Friday evening, Saturday and Sunday classes will meet at their regularly scheduled hours on that day for the final exam, unless otherwise specified by the instructor.

If a student has three or more examinations on one day, they should attempt to reschedule one (or more) of those examinations on another day when the instructor has an examination.

Permission for taking a final examination at any time other than the scheduled time must be arranged with the instructor of the class involved.

Contact For Questions/Concerns
Office: Office of the Registrar
Location: Meshel Hall
Website: https://ysu.edu/registrars-office/final-exam-schedule

Course Registration

Course registration for summer, fall and spring semesters is accomplished at several times and posted on the Office of the Registrar website. During the fall and spring semesters (in November and April), a two-week priority registration period is held for currently enrolled students to register for the
subsequent semester; new transfer and readmitted students are permitted to register during the priority period, too. An open registration period begins after the priority weeks and remains open through the last day to add a course for the semester. First-time undergraduate students, transient students, and participants in a college in high school program may register during the open period and typically register during a scheduled session or meeting with an advisor.

**Course Status**

**Course:**

The term course and class are used interchangeably at the university and is defined as learning for credit by a qualified instructor with regular and substantive student-instructor interaction.

**Class Hour:**

The class hour is a weekly 50-minute class period and is the basic unit of instruction.

**Semester Hour:**

The term “semester hour” (s.h.) signifies one class hour a week carried for one full semester (or the equivalent in a part of term, summer term or flexibly-scheduled class). A semester hour of credit (also known as credit hour) is the amount of credit given for one semester hour successfully completed. Each semester hour of credit represents an average of three hours of study and instruction every week through the term. Alternatively, a web-based semester hour will be defined as the learning that takes place in at least 45 hours of learning activities, which include time in reviewing lectures or class meetings online, laboratories, examinations, presentations, tutorials, preparation, reading, studying, hands-on experiences, and other learning activities or a demonstration by the student of learning equivalent to that established as the expected product of such a period of study.

**Enrollment Status**

**Current Student:**

Enrollment is defined as consisting of three major components: admission to the university, course registration, and payment of all assessed tuition and fees. A currently enrolled undergraduate student is defined as one who is enrolled past the fourteenth day of the full-term or seventh day of an eight week or less part of term. Students who are considered current for a term, but do not register for the subsequent term, will still be notified about priority registration for two subsequent semesters. A student is no longer considered current or active if they have not enrolled for three consecutive semesters.

**Full-Time Student:**

A full-time undergraduate student is defined as one who is registered for at least 12 semester credit hours during a semester. Full-time enrollment for federal financial aid is always defined as 12 semester credit hours, including summer semester. Full-time tuition bulk rate is always defined as enrollment for 12 to 18 semester credit hours.

**Enrollment Verification:**

The National Student Clearinghouse serves as the university’s authorized agent for enrollment and degree verification. The clearinghouse receives data electronically from YSU and dispenses the information electronically to requesting lending institutions, prospective employers, background investigation firms, and credit granting agencies. Students may also find that they need a letter from the university as proof of enrollment for things including but not limited to professional associations, licensure, insurance, and loans. The Office of the Registrar is responsible for verifying student enrollment status and can provide students with an enrollment verification letter. The office maintains both current and past records of enrollment, but cannot verify future enrollment. Students may request a letter in the Penguin Portal. The letter will be printed the next business day and will list the student’s enrollment status (i.e., full-time) for the term requested, anticipated graduation date, and start and stop dates of the term. An enrollment verification letter does not include courses taken or grades attained; an official transcript should be requested to verify this type of information.

**Maximum Schedule:**

The semester hours of credit a student carries per term depends on the degree sought and on the curriculum being followed. A minimum of 120 semester hours must be satisfactorily completed to earn a baccalaureate degree; a minimum of 60 semester hours for an associate degree. Students expecting to complete a bachelor’s degree in four years or an associate degree in two years should average 16 semester credit hours per term. An undergraduate student may register for a course load maximum of 20 semester credit hours per term. Students interested in taking 21 credit hours or more per term must seek approval from the dean of their college.

**Process/Procedure**

All course registration takes place online through the Penguin Portal and students may not attend a course unless they have registered for that course. Course registration is defined as adding a class, dropping a class, or completely withdrawing from all classes. Initial course registration and schedule adjustments must be completed before the last day to add a course or the last day to withdraw deadlines for the term/part of term. Detailed instructions on registration, including how to use waitlist, add/drop courses, change a grade mode or variable credit hours, or complete withdrawal are available on the Penguin Service Center website.

In general, students should follow the steps listed below to complete the registration process each semester:

- Run a program audit to review remaining course requirements and/or complete an academic advisement session, as necessary
- Review the schedule of classes in the Penguin Portal
- Register for classes in the Penguin Portal
- Check financial aid requirements for eligibility and accept available aid in the Penguin Portal
- View and pay charges in the Penguin Portal
- Review course schedule in the Penguin Portal prior to first day of classes
- Review and adhere to academic calendar deadlines on the Office of the Registrar’s website

**Check Registration Status:**

There are various reasons a student could have a hold on their record preventing them from completing registration. Students should check their registration status in the Penguin Portal prior to registration. If there is a hold on the student’s account, it will indicate if it will prevent registration and a phone number of where to call to resolve the issue will be listed in the description. If an academic advisement hold is listed, students should make an appointment with their assigned advisor as promptly as possible. Each academic department or college has a procedure for assigning a student to a faculty or staff advisor. For advisement requirements, please review the advisement section of the catalog.

**Pay Attention to Registration Error Messages:**

Some courses have prerequisites or requirements that students must meet in order to enroll in their courses. If a student receives an error message while registering for a course, note the message and contact the academic department of the course or the Penguin Service Center for assistance; students will find that they may need an override to be placed on their account before completing the registration process.

**Closed Classes:**

Departments set limits to the number of students that can be accommodated in each section. During the registration period, many class sections become
filled. These sections are labeled with a "C" in the schedule of classes and called "Closed," which means that no more students will be admitted to the course section. Students should use the waitlist option to obtain entry into the course; instructions on how to waitlist are available on the website (https://ysu.edu/penguin-service-center/online-instructions/). Only the department chair offering the course can admit a student to a closed class or reopen a closed class.

**Variable Credit Hour Classes:**

Certain courses have variable credit hours which is a range of credits for which the course can be taken. Students wishing to register for such a course may do so after consulting with the department offering the course to determine the number of hours for which to register. The last day to add a class is also the last day to change a variable credit hour course's hours.

**Change of Registration:**

It is recommended that students consult with their advisor prior to changing their schedules or completely withdrawing for the semester to review how those decisions may affect degree completion. Students may add, drop, or withdraw through the Penguin Portal according to the semester's published deadlines in the academic calendar (https://ysu.edu/registrars-office/calendars/).

**Exceptions**

**Undergraduates Registering for Conference Courses:**

Conference course work is available only in exceptional cases and if the academic advisor considers conference work essential. Students must obtain the required override approval(s) and complete the course registration through the portal. Conference courses have the following restrictions:

1. Permission is limited to seniors with a grade-point average of 3.00 or above (exceptions to this must be approved by the dean of the college in which the student is enrolled).
2. The course must be instructed by a full-time faculty member.
3. A brief description of the plan of procedure must be given by the full-time faculty member.
4. Student must have approval from the course's academic department and the dean of the college in which the course resides.

**Undergraduates Registering for Graduate Level Courses:**

Undergraduate students who do not have a bachelor's degree may request permission to take a 5800 level or higher graduate course(s) for graduate credit from the College of Graduate Studies. Before registering for the course(s), the student must have the approval of the student’s advisor in the program where the credit will be applied, the course instructor, and the dean of the College of Graduate Studies. The student's advisor will complete a request form to be approved by the course instructor and College of Graduate Studies. Students must meet the following criteria in order to obtain permission to enroll:

1. Senior standing with un-recalculated grade point average of 2.7 or above
2. Graduate level course may not cause undergraduate schedule to exceed 15 semester credit hours
3. Graduate level course may not be used for graduate credit until undergraduate student is admitted to the College of Graduate Studies and the credit is approved by the admitting program department
4. Graduate level course credit total may not exceed 9 semester credit hours

The credit earned may be used for graduate credit in a YSU graduate level program only after the student is admitted to the College of Graduate Studies and the credit is accepted by the department in which the student continues graduate work. The maximum amount of such credit that will be accepted at Youngstown State University is 9 credit hours.

**Undergraduates Registering for Over 20 Credit Hours in a Single Term:**

Undergraduate students are limited to registering for a maximum of 20 semester credit hours each term. Students interested in registering for more than 20 semester credit hours must obtain approval from their academic college dean or their representative prior to registration. The academic college will complete an approval form and submit it to the Office of the Registrar for processing; once processed, the student's maximum hours will be adjusted and the student can register for the approved maximum beyond 20.

**Undergraduates Obtaining Late Registration to a Course(s):**

Obtaining admission to a course after the last day to add is only granted in certain circumstances. Students may petition to late register at the Penguin Service Center. If granted permission, the student must already be registered for other coursework, hold good academic standing status, have an account free from holds that prevent registration, and instructor approval.

**Undergraduates Obtaining Late Withdrawal from a Course(s):**

Course withdrawal after the last day to earn a "W" deadline or unofficial withdrawal is typically recorded as an "F" on the student's transcript. If that grade resulted from circumstances over which the student had no control, the student may file a petition for late withdrawal with the academic college of their major within one year from the time the grade in the course was recorded.

**Undergraduates Obtaining Registration in a Closed Course(s):**

Academic departments set limits to the number of students that can be accommodated in each course section. During the registration period or the period for adding courses, many course sections become filled. These classes are called "closed" in the schedule of classes, which means that no more students will be admitted to them. If a student has an extenuating need to register for a closed course, the student should appeal to the chair of the academic department for the course; the department is the only authority that may permit a student to enter a closed course or reopen a closed course.

**Undergraduate Student Cancellation of Registration:**

A student's registration may be cancelled and withdrawn or administratively changed for any of the following reasons and are notified of the cancellation via email and/or letter:

1. Academic suspension from the previous term
2. Conditional Admission or Strong Start program dismissal
3. Disciplinary action via Student Conduct
4. Failure to meet admission or course prerequisite requirements
5. Registering for more hours than permitted
6. Failure to satisfy past-due financial obligations to the university
7. Insufficient class enrollment (course section is cancelled)

**CONTACT FOR QUESTIONS/CONCERNS**

Office: Penguin Service Center
Location: Meshel Hall
Website: https://ysu.edu/penguin-service-center and https://ysu.edu/registrars-office

**Degrees, Majors, and Minors**

Youngstown State University grants the following bachelor and associate degrees:

- Bachelor of Arts (BA)
- Bachelor of Engineering (BE)
- Bachelor of Fine Arts (BFA)
- Bachelor of General Studies (BGS)
• Bachelor of Music (BM)
• Bachelor of Science (BS)
• Bachelor of Science in Applied Science (BS in AS)
• Bachelor of Science in Business Administration (BS in BA)
• Bachelor of Science in Dental Hygiene (BSDH)
• Bachelor of Science in Education (BS in Ed)
• Bachelor of Science in Nursing (BSN)
• Bachelor of Science in Respiratory Care (BSRC)
• Bachelor of Social Work (BSW)
• Associate of Arts (AA)
• Associate of Applied Science (AAS)
• Associate of Technical Study (ATS)

All bachelor’s and associate degrees may be taken as honors degrees. An integrated BaccMed program is offered in conjunction with the Northeast Ohio Medical University and Lake Erie College of Osteopathic Medicine Educational System.

**Majors**

**DECLARING OR CHANGING A MAJOR**

A student may enter the university as an undetermined major.

A major and minor (if required) must be declared by the time the student has completed 63 semester hours.

In order to change or declare a major, the student must fill out the Intra-University Transfer Request form in the department of the desired major. The approved form will be forwarded to the Office of Records.

Students who need help selecting a major should contact an academic advisor, the academic department, or the Office of Career Exploration and Development for assistance with academic and career planning. See majors in Graduation Requirements (p. 28) for additional information.

**ADDITIONAL MAJORS AND DEGREES**

A student interested in pursuing more than one major at a time should contact the departments offering majors to be assigned an advisor for each program. Multiple majors or degrees may be awarded concurrently.

**MULTIPLE MAJORS/SINGLE DEGREE**

A degree – e.g. Bachelor of Science, Bachelor of Arts – may be awarded only once. However, more than one major for the degree may be posted on the transcript when the appropriate department chairpersons certify completion of the requirements. The student should indicate in each of the appropriate colleges each major completed when filing for graduation. When the student completes more than one major in a given degree, one diploma is awarded. A minimum of 30 semester hours or 50% of the credits counted towards a major, whichever is less, must be specific to that major and not shared by any other major.

**MULTIPLE MAJORS/MULTIPLE DEGREES**

If a student wishes to complete the requirements for multiple majors that are awarded under different degrees, the student must fulfill all requirements for each major and each degree. The appropriate chairpersons and deans must then certify completion of the requirements for each major and degree. The student must file intent to graduate and graduation application forms for each major and degree in the appropriate colleges. A minimum of 30 semester hours or 50% of the credits counted towards a major, whichever is less, must be specific to that major and not shared by any other major.

Students may not earn the Bachelor of General Studies concurrently with another bachelor’s degree. Students who hold a bachelor’s degree are not eligible for a Bachelor of General Studies degree.

Any student who has received a degree from another institution and desires a second degree from YSU must complete a minimum academic residency of 20 semester hours for an associate degree and 30 semester hours for a baccalaureate degree, meet all requirements for the second degree, and complete the requirements for a new major. Students coming from another university or from YSU with an already-completed bachelor’s degree will not have to complete any additional general education requirements at YSU but will have to satisfy the residency requirements described above.

**Individualized Curriculum Program**

The student whose needs are not met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (ICP (http://www.ysu.edu/academics/college-liberal-arts-social-sciences/individualized-curriculum-program/)). This option requires a student to design the curriculum suited to his or her particular background and needs, allowing alternative paths for reaching the currently offered undergraduate degrees.

A student admitted to the program will have the help of a committee of faculty advisors selected by the student. This committee will help to develop a program that will serve a valid educational goal not attainable within the regular curricular structure of the university. To receive approval, the overall program needs to be of a scope and intensity comparable to conventional programs leading to the degree being sought.

Students wishing to develop an individualized curriculum must meet the following requirements:

1. Sophomore standing 32 s.h. completed (for baccalaureate degree)
2. GPA of at least 2.50
3. Students pursuing a baccalaureate degree must have at least 30 s.h. to complete once the program has been approved. Students pursuing an associate degree must have at least 20 s.h. remaining upon approval.

**Minors**

**DECLARING OR CHANGING A MINOR**

A minor is an intellectual venture that broadens and deepens the student’s intellectual growth.

A minor consists of at least 12 hours but not more than 19 hours of an approved, published set of courses.

Each student must complete a minor, unless the student has a combined major or is enrolled in a professional or technical curriculum that does not require a delineated minor. Check with academic advisor for specific information. See Minors at Graduation Requirements (p. 28) for more information.

In order to change or declare a minor, the student must fill out the Intra-University Transfer Request form in the department of the desired minor. The approved form will be forwarded to the Office of Records.

**Contact for Questions/Concerns**

Office: Advisement Office (in which your major lies)
Location: Academic College (in which your major lies)

**General Education Requirements**

**Catalog of Entry**

The Undergraduate Academic Catalog in effect when a student first enrolls at the university or any one subsequent catalog will be the guide to General Education Requirements.

**Grades**

Unless otherwise stated in a course description, a student must earn a grade of D or better to receive general education credit for a course. In some cases,
goals

The general education program at YSU is designed to help students achieve the following five goals:

- Students will demonstrate the ability to write and speak effectively, reason quantitatively, and think critically so they are prepared to perform appropriately in their professions upon graduation. These skills will be applied in the major and culminate in the successful completion of a senior capstone project.
- Students will demonstrate understanding of the basic facts, principles, theories, and methods of science. Students will demonstrate the interdependence of science and technology and the influence of science and technology on society.
- Students will interpret significant writings and works of art, with a focus on aesthetics, historical responses, and the nature of the human condition.
- Students will demonstrate understanding of the development, diversity, and complexity of human behavior, institutions, and culture.
- Students will demonstrate understanding in any of the following critical areas of contemporary life: Domestic Diversity, International Perspectives, Sustainability, and Well-being.

learning outcomes

To assist students in achieving the goals above, the courses included in the General Education model incorporate some combination of the learning outcomes. The outcomes as they relate to the goals for the various types of General Education courses are listed below:

core competencies learning outcomes:

GOAL: Students will demonstrate the ability to write and speak effectively, reason quantitatively, and think critically so they are prepared to perform appropriately in their professions upon graduation.
- Students will demonstrate the ability to write and speak effectively, develop sound arguments, and derive justified conclusions.
- Students will demonstrate the ability to reason using quantitative data, and students will demonstrate use of mathematical methods and concepts in both abstract and concrete contexts.
- Students will demonstrate the ability to reason critically and identify credible sources.

Knowledge Domain Learning Outcomes:

Natural Sciences
GOAL: Students will demonstrate understanding of the basic facts, principles, theories, and methods of science. Students will demonstrate the interdependence of science and technology and the influence of science and technology on society.
- Students will successfully perform an experiment to test a hypothesis including the collection and analysis of data.
- Students will demonstrate the knowledge and application of scientific principles.
- Students will use and interpret formulas, graphs, and tables.
- Students will demonstrate understanding of the interactions of science, technology and society.

Arts and Humanities
GOAL: Students will interpret significant writings and works of art, with a focus on aesthetics, historical responses, and the nature of the human condition.
- Students will analyze and evaluate the elements and the personal and societal impact of multiple types of literary and artistic expressions.
- Students will demonstrate awareness of ethical or cultural values in shaping the human experience.

Social Sciences
GOAL: Students will demonstrate understanding of the development, diversity, and complexity of human behavior, institutions, and culture.
- Students will demonstrate understanding of the contexts and development of human cultures and institutions.
- Students will demonstrate understanding of individual and social behavior.
- Students will demonstrate an understanding of methodologies used in the social sciences.

Social and Personal Awareness
GOAL: Students will demonstrate understanding in any of the following critical areas of contemporary life: Domestic Diversity, International Perspectives, Sustainability, and Well-being.
- Domestic Diversity - Students will demonstrate knowledge of the experiences of different groups within the United States where those groups are defined by class, ethnicity, race, religion, disability, sex, or sexual orientation.
- International Perspectives - Students will demonstrate knowledge of the artistic, social, economic, or political life of communities outside the United States.
- Environmental Sustainability - Students will demonstrate understanding of contemporary concerns regarding the environmental sustainability of social, economic, public policy and technological systems and practices.
- Wellbeing - Students will demonstrate understanding of and appreciation for the relationship between personal behaviors and lifelong health and wellness.

Capstone Learning Outcomes:

GOAL: Students will demonstrate the ability to write and speak effectively, reason quantitatively, and think critically so they are prepared to perform appropriately in their professions upon graduation. These skills will be applied in the major and culminate in the successful completion of a senior capstone project.
- Write and speak effectively.
- Acquire, process and present quantitative and qualitative information using the most appropriate technologies.
- Reason critically, to distinguish among forms of argumentation, and to derive justified conclusions.

Baccalaureate Degree General Education Requirements

A. Core Competencies (p. 24)

Writing
To learn the skills of effective writing, students will:
- Take two courses:
  - ENGL 1550 Writing 1 or ENGL 1549 Writing 1 with Support – the standard introductory writing course
  - ENGL 1551 Writing 2 – a course in which students investigate a thematic topic (students with ACT scores at or above 28 will only need to take ENGL 1551 Writing 2)
- Gather evidence from the library, Internet, or other appropriate sources
- Write a research paper using a computer
### Applied Associate Degrees

Degrees require the completion of a minimum of five courses.

### Critical Thinking

The critical-thinking learning outcome will be met through each student’s major’s curriculum.

### Mathematics

Students must take at least one approved course that teaches mathematical and statistical skills. A student may satisfy this requirement by passing an approved course or by passing a higher-level mathematics course.

### B. Knowledge Domains: Arts and Humanities (p. 21), Natural Sciences (p. 22), Social Sciences (p. 22), and Social and Personal Awareness (p. 23)

To become more well-rounded members of the community, students are required to take a total of nine courses from the four knowledge domains. The coursework gives students exposure to fields of study outside their majors. Students are required to take:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
</tbody>
</table>

### C. Capstone (p. 25)

All majors require a capstone course. In the capstone course, students are required to demonstrate knowledge in their major as well as their ability to communicate in writing, their oral communication skills, and their ability to reason critically.

### Baccalaureate Degree General Education Requirements Summary

#### Core Competencies
- Writing 2 courses
- Speech 1 course
- Mathematics 1 course

#### Knowledge Domains
- Arts and Humanities 2 courses
- Natural Science 2 courses (1 must include a lab)
- Social Science 2 courses
- Social and Personal Awareness 2 courses
- Capstone 1 course

**Total** 13 courses

### Associate Degree General Education Requirements

The general education requirements vary by degree; the requirements for each associate degree are listed in the appropriate college section. All associate degrees require the completion of a minimum of five courses.

### Applied Associate Degrees

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
</tbody>
</table>

### Mathematics (no more than one course)

Select two courses from two of the three following areas:

- [ ] Natural Science
- [ ] Arts and Humanities
- [ ] Social Science

Students in Applied Associates Degree Programs must take a minimum of five general-education courses, including Writing I and Writing II, one course in mathematics, two courses representing two of the following domains: natural science, arts and humanities, and social science. To ensure transferability of an Associates Degree within the State of Ohio, students should take only Ohio Transfer Module (OTM) Approved Courses in arts and humanities and social science.

### Academic Associates Degrees at YSU

Students in the Associates of Arts Program must fulfill the same Gen. Ed. requirements as required for Baccalaureate Programs (with exception of the capstone.) To ensure transferability of an Associates Degree within the State of Ohio, students should only take Ohio Transfer Module (OTM) Approved Courses.

### General Education and Transfer Students

#### Transfer students with a bachelor’s degree

Students with a bachelor’s degree from a regionally accredited institution in the United States seeking an additional baccalaureate degree do not have to complete the YSU general education requirements. Students will need to take general education courses required for their major. See the Degree Audit (http://cms.ysu.edu/administrative-offices/degree-audit/degree-audit/) website for an up-to-date list.

#### Transfer students without a bachelor’s degree

All transfer students without a bachelor’s degree from a regionally accredited institution in the United States must complete the general education requirements. Students should consult with an academic advisor to discuss the coursework they need to complete the YSU general education requirements. See the Transfer Credit (p. 43) section of this catalog for additional information.

### Arts and Humanities

Bachelor’s degree seeking students must complete two of the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFST 2601</td>
<td>Introduction to Africana Studies 1, 2</td>
</tr>
<tr>
<td>ART 1540</td>
<td>Masterpieces of World Art 1, 2</td>
</tr>
<tr>
<td>ART 1541</td>
<td>Survey of Art History 1</td>
</tr>
<tr>
<td>ART 1542</td>
<td>Survey of Art History 2 1, 2</td>
</tr>
<tr>
<td>ART 1543</td>
<td>Survey of Art History: Gods and Monsters—Religion, Myth, and the Supernatural</td>
</tr>
<tr>
<td>ART 1544</td>
<td>Survey of Art History: Body, Gender, and Self</td>
</tr>
<tr>
<td>ART 1545</td>
<td>Survey of Art History: Politics, Cities, and Art for the Public</td>
</tr>
<tr>
<td>ART 2648</td>
<td>Experience Art: Social and Behavioral Perspectives</td>
</tr>
<tr>
<td>DNCE 2698</td>
<td>Survey of Dance 1</td>
</tr>
<tr>
<td>ENGL 1590</td>
<td>Introduction to Literature</td>
</tr>
<tr>
<td>ENGL 2610</td>
<td>World Literature 1, 2</td>
</tr>
<tr>
<td>ENGL 2615</td>
<td>Science Fiction and Fantasy Literature</td>
</tr>
<tr>
<td>ENGL 2617</td>
<td>Women in Literature 1, 2</td>
</tr>
<tr>
<td>ENGL 2618</td>
<td>American Literature and Diversity 1, 2</td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>African Literature</td>
</tr>
<tr>
<td>ENGL 2630</td>
<td>LGBTQIA Literature</td>
</tr>
<tr>
<td>ENGL 2631</td>
<td>Mythology in Literature 1</td>
</tr>
</tbody>
</table>
Bachelor's degree seeking students must complete two of the following:

### Social Sciences

<table>
<thead>
<tr>
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<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>AFST 2600</td>
<td>Introduction to Africana Studies 1 2</td>
<td>3</td>
</tr>
<tr>
<td>AMER 2601</td>
<td>American Identity 2</td>
<td>3</td>
</tr>
<tr>
<td>AMER 2605</td>
<td>Turning Points in United States History 1</td>
<td>3</td>
</tr>
<tr>
<td>AMER 2606</td>
<td>Turning Points in United States History 2 1,2</td>
<td>3</td>
</tr>
<tr>
<td>AMER 2610</td>
<td>Work and Class in American Culture</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1500</td>
<td>Introduction to Anthropology 1</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 1503</td>
<td>The Rise and Fall of Civilizations</td>
<td>3</td>
</tr>
<tr>
<td>CMST 2600</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>

Only one of the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 1501</td>
<td>Economics in Action 1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics 1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1502</td>
<td>Panic and Prosperity. United States Economic Policy Since the Great Depression</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1503</td>
<td>Rich and Poor: Diversity and Disparity in the United States Workplace 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2651</td>
<td>Introduction to Language 2</td>
<td>3</td>
</tr>
<tr>
<td>FNLG 2660</td>
<td>Women in the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2626</td>
<td>World Geography 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2640</td>
<td>Human Geography 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2650</td>
<td>Global Economic Landscapes 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>GERO 1501</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3703</td>
<td>Aging and Society 2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1500</td>
<td>Discovering World History 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1501</td>
<td>American Dreams: Introduction to United States History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1511</td>
<td>World Civilization to 1500 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History 2 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 1531</td>
<td>Fundamentals of Public Health 2</td>
<td>3</td>
</tr>
<tr>
<td>POL 1550</td>
<td>Introduction to Political Science 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>POL 1560</td>
<td>American Government 1</td>
<td>3</td>
</tr>
<tr>
<td>POL 2640</td>
<td>Contemporary World Governments 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>POL 2660</td>
<td>International Relations 2</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology 1</td>
<td>3</td>
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<tr>
<td>PSYC 3700</td>
<td>Social Psychology 3</td>
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<tr>
<td>PSYC 3755</td>
<td>Child Development 3</td>
<td></td>
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<tr>
<td>PSYC 3758</td>
<td>Lifespan Development 2</td>
<td>3</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology 1</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2601</td>
<td>Social Problems 1</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3703</td>
<td>Aging and Society 2</td>
<td>3</td>
</tr>
<tr>
<td>TCOM 1595</td>
<td>Media Literacy and Culture 1</td>
<td>3</td>
</tr>
<tr>
<td>WMST 2601</td>
<td>Introduction to Women's Studies 1, 2</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Courses are part of the Ohio Transfer Module and are guaranteed to transfer to any of Ohio’s public institutions of higher education as a subject area general education credit. Ohio’s Department of Higher Education maintains an up-to-date list of OTM approved courses through the OTM reporting system. ([https://reports.cems.transfercredit.ohio.gov/pg_6/?1719503359833:NO6.:] 1

2. Courses are cross-listed with another General Education domain.

### Natural Sciences

Bachelor's degree seeking students must complete two of the following (one must include a lab):

#### Natural Science Courses without a lab

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTR 1504</td>
<td>Descriptive Astronomy 1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1505</td>
<td>Biology and the Modern World 1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1551</td>
<td>Anatomy and Physiology 1, 4</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1500</td>
<td>Chemistry in Modern Living 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1520</td>
<td>Allied Health Chemistry for Online Programs</td>
<td>3</td>
</tr>
<tr>
<td>ENST 1500</td>
<td>Introduction to Environmental Science 1, 2</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 1503</td>
<td>Physical Geography 1</td>
<td>3</td>
</tr>
</tbody>
</table>
GEOG 2630  Weather  3  
GEOL 1504  The Dynamic Earth  3  
GEOL 2602  Introduction to Oceanography  3  
PHYS 1500  Conceptual Physics  3  
PHYS 1501  Fundamentals of Physics 1 4  
PHYS 1502  Fundamentals of Physics 2 4  
PHYS 2601  General Physics for Applied Medical Studies 1 4  
PHYS 2602  General Physics for Applied Medical Studies 2 4  
PHYS 2607  Physical Science for Middle and Secondary Education 4  
PHYS 2608  Sound  3  
PHYS 2610  General Physics 1 4  
PHYS 2611  General Physics 2 4  

Natural Science Courses with a lab

Labs must be taken with the associated course in order to count for Natural Science Lab credit.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ASTR 1504 &amp; 1504L</td>
<td>Descriptive Astronomy and Astronomy Laboratory 1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1505 &amp; 1505L</td>
<td>Biology and the Modern World and Biology and the Modern World Laboratory 2</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1545 &amp; 1545L</td>
<td>Allied Health Anatomy and Physiology and Allied Health Anatomy and Physiology Laboratory 3,4</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 1551 &amp; 1551L</td>
<td>Anatomy and Physiology 1 and Anatomy and Physiology 1 Laboratory 3,4</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1552 &amp; 1552L</td>
<td>Anatomy and Physiology 2 and Anatomy and Physiology 2 Laboratory 3,4</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory 3,4</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory 3,4</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2602H &amp; BIOL 2602L</td>
<td>Honors General Biology Organisms and Ecology and General Biology: Organisms and Ecology Laboratory 4</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1500 &amp; 1500L</td>
<td>Chemistry in Modern Living and Chemistry in Modern Living Laboratory 3</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1510 &amp; 1510L</td>
<td>Chemistry for the Allied Health Sciences and Chemistry for the Allied Health Sciences Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory 3,4</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory 3,4</td>
<td>4</td>
</tr>
<tr>
<td>ENST 1500 &amp; 1500L</td>
<td>Introduction to Environmental Science and Introduction to Environmental Science Lab 2,3</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 1503 &amp; 1503L</td>
<td>Physical Geography and Physical Geography Laboratory 1</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 2630 &amp; 2630L</td>
<td>Weather and Weather Lab 1</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1500</td>
<td>Environmental Geology 2</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 1505 &amp; 1505L</td>
<td>Physical Geology and Physical Geology Laboratory 3</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 2611</td>
<td>Geology for Engineers 3,4</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1500 &amp; 1500L</td>
<td>Conceptual Physics and Conceptual Physics Laboratory 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1501 &amp; 1501L</td>
<td>Fundamentals of Physics 1 and Fundamentals of Physics Laboratory 1 3,4</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 1502 &amp; 1502L</td>
<td>Fundamentals of Physics 2 and Fundamentals of Physics Laboratory 2 3,4</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2601 &amp; PHYS 2610L</td>
<td>General Physics for Applied Medical Studies 1 and General Physics Laboratory 1 3,4</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 2602 &amp; PHYS 2611L</td>
<td>General Physics for Applied Medical Studies 2 and General Physics Laboratory 2 3,4</td>
<td>5</td>
</tr>
</tbody>
</table>

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Courses are cross-listed with another General Education domain.

Lecture component of the course is OTM approved, however, the lab component is not OTM approved.

Courses are designed for science, engineering, and health science majors. Students should consult their advisor before selecting them.

Social and Personal Awareness

Bachelor’s degree seeking students must complete two of the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFST 2600</td>
<td>Introduction to Africana Studies 1,2</td>
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</tr>
<tr>
<td>AFST 2601</td>
<td>Introduction to Africana Studies 2,3</td>
<td>3</td>
</tr>
<tr>
<td>AMER 2601</td>
<td>American Identity 1,2</td>
<td>3</td>
</tr>
<tr>
<td>AMER/HIST 2606</td>
<td>Turning Points in United States History 2,3</td>
<td>3</td>
</tr>
<tr>
<td>ART 1544</td>
<td>Survey of Art History: Body, Gender, and Self</td>
<td>3</td>
</tr>
<tr>
<td>ART 1591</td>
<td>Idea Development and Creativity in Cultural Context</td>
<td>3</td>
</tr>
<tr>
<td>CMST 2610</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1503</td>
<td>Rich and Poor: Diversity and Disparity in the United States Workplace 1,2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2617</td>
<td>Women in Literature 1,2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2618</td>
<td>American Literature and Diversity 1,2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2630</td>
<td>LGBTQIA Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2651</td>
<td>Introduction to Language 1,2</td>
<td>3</td>
</tr>
<tr>
<td>HIST/AMER 2606</td>
<td>Turning Points in United States History 2,3</td>
<td>3</td>
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<tr>
<td>SOC 2690</td>
<td>Identities and Differences</td>
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<tr>
<td>WMST 2601</td>
<td>Introduction to Women’s Studies 1,2</td>
<td>3</td>
</tr>
<tr>
<td>WMST/TCED 2650</td>
<td>LGBTQ Issues in History and Popular Culture</td>
<td>3</td>
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</table>

Environmental Sustainability

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ART/STEM 1530</td>
<td>Sustainable Design in Practice</td>
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<tr>
<td>ENST 1500</td>
<td>Introduction to Environmental Science 2</td>
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<tr>
<td>GEOL 1500</td>
<td>Environmental Geology 2</td>
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<tr>
<td>PHLT 1513</td>
<td>Introduction to Environmental Health and Safety</td>
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<tr>
<td>PHIL 2631</td>
<td>Environmental Ethics</td>
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<tr>
<td>REL 2631</td>
<td>Religion and the Earth 1,2</td>
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### International Perspectives

<table>
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<th>COURSE</th>
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<tbody>
<tr>
<td>ART 1540</td>
<td>Masterpieces of World Art ¹ ²</td>
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<tr>
<td>ART 1542</td>
<td>Survey of Art History ² ³</td>
<td>3</td>
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<tr>
<td>ENGL 2610</td>
<td>World Literature ¹ ²</td>
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<tr>
<td>FNLG 2610</td>
<td>Foreign Film ²</td>
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<tr>
<td>GEG 2626</td>
<td>World Geography ¹ ²</td>
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</tr>
<tr>
<td>GEG 2640</td>
<td>Human Geography ¹ ²</td>
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</tr>
<tr>
<td>GEG 2650</td>
<td>Global Economic Landscapes ¹ ²</td>
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<tr>
<td>HIST 1500</td>
<td>Discovering World History ¹ ²</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500 ¹ ²</td>
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<tr>
<td>MUHL 2619</td>
<td>Music of Non-Western Societies</td>
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</tr>
<tr>
<td>MUHL 2621</td>
<td>Music Literature and Appreciation ¹ ²</td>
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<tr>
<td>MUHL 3771</td>
<td>Music History and Literature ¹</td>
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<tr>
<td>POL 1550</td>
<td>Introduction to Political Science ¹ ²</td>
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<tr>
<td>POL 2640</td>
<td>Contemporary World Governments ¹ ²</td>
<td>3</td>
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<tr>
<td>POL 2660</td>
<td>International Relations ²</td>
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<tr>
<td>REL 2601</td>
<td>Introduction to World Religions ¹ ²</td>
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<td>REL 2617</td>
<td>Introduction to Asian Religions ¹ ²</td>
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### Well-Being

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<tbody>
<tr>
<td>COUN 1587</td>
<td>Introduction to Health and Wellness in Contemporary Society</td>
<td>3</td>
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<tr>
<td>ECON 1505</td>
<td>Introduction to Personal Financial Literacy</td>
<td>3</td>
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<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3</td>
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<tr>
<td>GER/SOC 3703</td>
<td>Aging and Society ²</td>
<td>3</td>
</tr>
<tr>
<td>GER/SOC 3745</td>
<td>Sociology of Health, Illness, and Healthcare ²</td>
<td>3</td>
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<tr>
<td>KSS 1500</td>
<td>Physical Activity Core Concepts (Must be taken with two activity classes)</td>
<td>1</td>
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<tr>
<td>PHLT 1531</td>
<td>Fundamentals of Public Health ²</td>
<td>3</td>
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<tr>
<td>PHLT 1568</td>
<td>Healthy Lifestyles</td>
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<tr>
<td>PSYC 2692</td>
<td>Human Sexuality</td>
<td>3</td>
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<tr>
<td>PSYC 3707</td>
<td>Psychology of Intimate Relationships</td>
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<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<tr>
<td>SOC/GERO 3703</td>
<td>Aging and Society ²</td>
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<tr>
<td>SOC/GERO 3745</td>
<td>Sociology of Health, Illness, and Healthcare ³</td>
<td>3</td>
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</tbody>
</table>

¹ Courses are part of the Ohio Transfer Module and are guaranteed to transfer to any of Ohio's public institutions of higher education as a subject area general education credit. Ohio's Department of Higher Education maintains an up-to-date list of OTM approved courses through the OTM reporting system (https://reports.cems.transfercredit.ohio.gov/)

² Courses are cross-listed with another General Education domain.

### Physical Activity Courses to be used with KSS 1500 Physical Activity Core Concepts

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>KSS 1502</td>
<td>Volleyball</td>
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<tr>
<td>KSS 1507</td>
<td>Volleyball ²</td>
<td>1</td>
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<tr>
<td>KSS 1508</td>
<td>Group Cycling</td>
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<tr>
<td>KSS 1509</td>
<td>Meditation</td>
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<tr>
<td>KSS 1510</td>
<td>Archery</td>
<td>1</td>
</tr>
<tr>
<td>KSS 1511</td>
<td>Badminton</td>
<td>1</td>
</tr>
<tr>
<td>KSS 1512</td>
<td>Bowling</td>
<td>1</td>
</tr>
<tr>
<td>KSS 1513</td>
<td>Bowling ²</td>
<td>1</td>
</tr>
<tr>
<td>KSS 1514</td>
<td>Fencing ¹</td>
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<tr>
<td>KSS 1515</td>
<td>Fencing ²</td>
<td>1</td>
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<tr>
<td>KSS 1516</td>
<td>Boxing for Beginners</td>
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<tr>
<td>KSS 1519</td>
<td>Racquetball</td>
<td>1</td>
</tr>
<tr>
<td>KSS 1520</td>
<td>Golf ¹</td>
<td>1</td>
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<tr>
<td>KSS 1521</td>
<td>Golf ²</td>
<td>1</td>
</tr>
<tr>
<td>KSS 1522</td>
<td>Tennis ¹</td>
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<tr>
<td>KSS 1523</td>
<td>Tennis ²</td>
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<tr>
<td>KSS 1526</td>
<td>Marksmanship</td>
<td>1</td>
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<tr>
<td>KSS 1529</td>
<td>Recreational Games</td>
<td>1</td>
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<tr>
<td>KSS 1530</td>
<td>Learn to Swim</td>
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</tr>
<tr>
<td>KSS 1531</td>
<td>Aquatics ²</td>
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<tr>
<td>KSS 1534</td>
<td>Fitness Swimming</td>
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<tr>
<td>KSS 1537</td>
<td>Aquatic Exercise</td>
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<tr>
<td>KSS 1544</td>
<td>Step Aerobics</td>
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<tr>
<td>KSS 1545</td>
<td>Fold and Square Dance</td>
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<td>KSS 1547</td>
<td>Flexibility and Core Training</td>
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<tr>
<td>KSS 1548</td>
<td>Aerobic Dance</td>
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<tr>
<td>KSS 1549</td>
<td>Varsity Competition</td>
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<tr>
<td>KSS 1550</td>
<td>Pilates</td>
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<tr>
<td>KSS 1551</td>
<td>Student Athlete Experience</td>
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<tr>
<td>KSS 1552</td>
<td>Yoga</td>
<td>1</td>
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<tr>
<td>KSS 1553</td>
<td>Yoga ²</td>
<td>1</td>
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<tr>
<td>KSS 1554</td>
<td>Fitness Walking</td>
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<tr>
<td>KSS 1555</td>
<td>Jogging</td>
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<tr>
<td>KSS 1556</td>
<td>Racquetball ²</td>
<td>1</td>
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<tr>
<td>KSS 1557</td>
<td>Weight Training</td>
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<tr>
<td>KSS 1558</td>
<td>Physical Fitness for Life</td>
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<tr>
<td>KSS 1563</td>
<td>Rock Climbing</td>
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<td>KSS 1564</td>
<td>Bicycling</td>
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<tr>
<td>KSS 1565</td>
<td>Self Defense</td>
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<tr>
<td>KSS 1566</td>
<td>Judo</td>
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<tr>
<td>KSS 1568</td>
<td>Taekwondo/Karate</td>
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<tr>
<td>KSS 2632</td>
<td>Skin and Scuba Diving</td>
<td>2</td>
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<tr>
<td>KSS 2635</td>
<td>Open Water Scuba Diving</td>
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<tr>
<td>KSS 2637</td>
<td>Skin, Scuba and Openwater Diving</td>
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<tr>
<td>KSS 2697</td>
<td>Camping</td>
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<tr>
<td>MUEN 0004</td>
<td>University Chorus ³</td>
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<tr>
<td>MUEN 0006</td>
<td>Marching Band ³</td>
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</tbody>
</table>

³ Although the courses is permitted to be taken multiple times, it only counts as 1 activity course.

⁴ Although this courses is more than one credit, it only counts as one activity courses. The number of classes (2) is what s required, regardless of how many credits each individual course.

### Core Competencies

#### Writing

Bachelor's degree seeking students must complete the following two courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>4</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1 ¹</td>
<td>3</td>
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<tr>
<td>or ENGL 1550H</td>
<td>Honors Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2 (Students with ACT scores of 28 or above will only need to take ENGL 1551) ¹</td>
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<tr>
<td>or ENGL 1551H</td>
<td>Honors Writing 2</td>
<td>3</td>
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</table>
### Speaking
Bachelor's degree seeking students must complete the following course:

<table>
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<th>COURSE</th>
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<tbody>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations 1</td>
<td>3</td>
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### Mathematics
Bachelor's degree seeking students must complete one of the following courses:

<table>
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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>MATH 1510</td>
<td>College Algebra 1</td>
<td>4</td>
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<tr>
<td>MATH 1510C</td>
<td>College Algebra with Co-requisite Support</td>
<td>6</td>
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<tr>
<td>MATH 1511</td>
<td>Trigonometry</td>
<td>3</td>
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<tr>
<td>MATH 1511C</td>
<td>Trigonometry with Co-requisite Support</td>
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<tr>
<td>MATH 1513</td>
<td>Algebra and Transcendental Function 1</td>
<td>4</td>
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<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1570</td>
<td>Applied Calculus 1</td>
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<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
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<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
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<tr>
<td>MATH 1581H</td>
<td>Honors Biomathematics 2</td>
<td>4</td>
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<tr>
<td>MATH 1585H</td>
<td>Honors Accelerated Calculus 1</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<tr>
<td>MATH 2623C</td>
<td>Quantitative Reasoning with Co-Requisite Support</td>
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<td>MATH 2652</td>
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<tr>
<td>MATH 2662</td>
<td>Mathematics for Elementary Teachers 2</td>
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<tr>
<td>MATH 2665</td>
<td>Foundations of Middle School Mathematics 2</td>
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<tr>
<td>MATH 2670</td>
<td>Applied Calculus 2</td>
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<td>MATH 2686H</td>
<td>Honors Accelerated Calculus 2</td>
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<tr>
<td>STAT 2601</td>
<td>Introductory Statistics 1</td>
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<tr>
<td>STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning 1</td>
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<td>STAT 2625C</td>
<td>Statistical Literacy and Critical Reasoning with Co-Requisite Support</td>
<td>6</td>
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<tr>
<td>PHIL 2619</td>
<td>Introduction to Logic</td>
<td>3</td>
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</tbody>
</table>

1 Courses are part of the Ohio Transfer Module and are guaranteed to transfer to any of Ohio's public institutions of higher education as a subject area general education credit. Ohio's Department of Higher Education maintains an up-to-date list of OTM approved courses through the OTM reporting system. (https://reports-cems.transfercredit.ohio.gov/pg_6/?17195033559833:NO:6:)

### Capstone
Bachelor's degree seeking students must complete one of the following courses within their major:

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>AMER 4810</td>
<td>Independent Project in American Culture</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTH 4860</td>
<td>Senior Thesis 2</td>
<td>3</td>
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<tr>
<td>ART 4803</td>
<td>Senior Seminar</td>
<td>3</td>
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<tr>
<td>ART 4899</td>
<td>Seminar in Art History</td>
<td>3</td>
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<tr>
<td>ASTR 4815</td>
<td>Undergraduate Astronomy Research</td>
<td>3</td>
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<tr>
<td>CEEN 4863</td>
<td>Integrated Design Project</td>
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<tr>
<td>BIOL 4861</td>
<td>Senior Biology Capstone Experience</td>
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<tr>
<td>CHEM 4850</td>
<td>Chemistry Research</td>
<td>1</td>
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<tr>
<td>CIS 4840</td>
<td>Business System Analysis and Design</td>
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<td>CMST 4899</td>
<td>Senior Project</td>
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<tr>
<td>CRJS 4800</td>
<td>Senior Seminar</td>
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<tr>
<td>CSCI 4890</td>
<td>Computer Projects</td>
<td>2-4</td>
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<tr>
<td>CSIS 4870</td>
<td>Web Communications Capstone</td>
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<tr>
<td>DHYG 4840</td>
<td>Directed Dental Hygiene Research</td>
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<tr>
<td>ECE 4841</td>
<td>Supervised Student Teaching: Early Childhood</td>
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<td>ECEN 4899</td>
<td>Senior Design Project</td>
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<tr>
<td>ECON 4880</td>
<td>Analysis of Economic Problems</td>
<td>3</td>
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<tr>
<td>ENGL 4890</td>
<td>Senior Seminar</td>
<td>3</td>
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<tr>
<td>ENGL 4899</td>
<td>Professional and Technical Writing Senior Project</td>
<td>3</td>
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<tr>
<td>ENST 5830</td>
<td>Toxicology and Risk Assessment</td>
<td>3</td>
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<tr>
<td>FNU1 4885</td>
<td>Practicum in Dietetics</td>
<td>4</td>
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<tr>
<td>FNU1 4895</td>
<td>DPD Capstone</td>
<td>3</td>
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<tr>
<td>FSCI 5814</td>
<td>Practice and Ethics in Forensic Science</td>
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<tr>
<td>GEOG 4890</td>
<td>Geography Capstone</td>
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<td>GEOL 48xxF Field Camp Course</td>
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<tr>
<td>GEOL 5802</td>
<td>Sedimentology and Stratigraphy</td>
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<td>GERO 4851</td>
<td>Capstone in Gerontology</td>
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<td>HIST 4870</td>
<td>Senior Research Seminar</td>
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<td>HMEC 4876</td>
<td>Undergraduate Research</td>
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<td>HMEC 4877</td>
<td>Research Capstone</td>
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<td>INFO 4880</td>
<td>Information Technology Analysis and Design</td>
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<td>ISEN 4821</td>
<td>Capstone Design 1: Manufacturing and Service Systems</td>
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<tr>
<td>&amp; ISEN 4822</td>
<td>Capstone Design 2: Logistics Systems</td>
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<td>JOUR 4939</td>
<td>Journalism Senior Project</td>
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<tr>
<td>LASS 4880</td>
<td>General Studies Capstone</td>
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<tr>
<td>ITAL 4880</td>
<td>Italian Conversation and Composition Capstone</td>
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<td>MATH 4896</td>
<td>Senior Undergraduate Research Project</td>
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<tr>
<td>MECH 4808 &amp; 4808L</td>
<td>Mechanical Systems Design 1 &amp; Mechanical Systems Design Laboratory</td>
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<td>&amp; MECH 4809 &amp; MECH 4809</td>
<td>Mechanical Systems Design 2</td>
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<td>MGT 4850</td>
<td>Strategic Management and Leadership</td>
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<td>MRCH 4880</td>
<td>Merchandising Management</td>
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<tr>
<td>Music 4802, 4804, or 4806 Applied Studio Instruction</td>
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<td>Senior Capstone Seminar</td>
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<td>PHIL 4861</td>
<td>Senior Capstone Project</td>
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<td>PHLT 4899</td>
<td>Public Health Senior Seminar</td>
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<td>POL 4801</td>
<td>Senior Research Seminar</td>
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<td>PHYS 4805</td>
<td>Undergraduate Physics Research</td>
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<td>PSYC 4890</td>
<td>Senior Thesis</td>
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<td>Senior Psychology Capstone Experience</td>
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<td>REL 4871</td>
<td>Senior Capstone Project</td>
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<td>SCWK 4827</td>
<td>Integrated Capstone Seminar</td>
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<td>SED 4842</td>
<td>Supervised Student Teaching: High School</td>
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<td>SED 4827</td>
<td>Supervised Student Teaching: Language (K-12)</td>
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<td>Supervised Student Teaching: Art (K-12)</td>
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<td>SED 4844</td>
<td>Supervised Student Teaching: Music (K-12)</td>
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<td>SED 4845</td>
<td>Supervised Student Teaching: Health (K-12)</td>
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<td>SPAN 5885</td>
<td>Topics in Hispanic Literature and Film</td>
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<td>SPAN 5890</td>
<td>Topics in Spanish Literature: Spanish-America</td>
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<td>SPED 4839</td>
<td>Supervised Student Teaching: Moderate/Intensive Intervention Specialist</td>
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<tr>
<td>SPED 4849</td>
<td>Supervised Student Teaching: Mild Moderate/Disabilities</td>
<td>1-10</td>
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<td>STAT 4896</td>
<td>Statistical Project</td>
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<td>Capstone</td>
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<td>TEMC 4802</td>
<td>Student Teaching: Middle Childhood</td>
<td>5-10</td>
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<tr>
<td>THTR 4898</td>
<td>Senior Project</td>
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</table>
Grading Method and Procedures

Grading System

Faculty assign grades on the basis of achievement in the subject matter of the course and in accordance with accepted professional standards for that subject. The grade earned by a student thus represents the quality of work and is not based merely on competition within the class.

- The grade of A represents exceptional work in which the student shows that the students have firmly grasped and achieved the objectives of the course.
- The grade of B indicates very good work and considerable grasp of the essentials of the course.
- The grade of C indicates good work and a usable grasp of the essentials of the course.
- The grade of D indicates a definite, but not necessarily coherent, knowledge of the course.
- The grade of F indicates that the student has not achieved even a minimum grasp of the essentials of the course. This grade can also result from failure to withdraw officially from a course (see Change of Registration (p. 16) and Refund of Fees Upon Withdrawal (p. 70)).

Grade of Incomplete (I)

An incomplete grade of "I" may be given to a student who has been doing satisfactory work in a course but, for reasons beyond the control of the student and deemed justifiable by the instructor, had not completed all requirements for a course when grades were submitted. A letter grade may not be changed to an "I" after the term has ended and grades have been recorded. A written explanation of the reason for the "I" must be forwarded by the instructor to the Office of Records. This explanation will be included in the student’s permanent record, with copies to the student and department chairperson. For fall term courses, the final date to complete an "I" will be March 1 of the following term; for the spring term courses, September 1; for all summer term courses, October 1. With approval by the instructor and the dean of the college in which the course is taught, the completion date may be extended. Courses not completed by the appropriate date will be converted to an "F:"

Students should not register for the same course the subsequent term. Rather, the student should work individually with the instructor to fulfill the course requirements. The instructor will initiate a grade change upon completion of the course requirements. If no formal grade change occurs within the allotted time frame, the I automatically converts to an "F:" Any I that is still pending by graduation will be converted to an "F:"

If a student receives an "I" as a result of being summoned to active military duty, the student will have one academic year from the date when he or she is released from active duty to complete the course requirements and have the change of grade recorded. It is the student’s responsibility to inform the registrar or associate director of records regarding the Incomplete grade.

Department chairs are granted authority to convert grades of "I" into final grades in cases where instructors may have severed connections with the university or have been otherwise unable to convert the grades.

Grade of Progress (PR)

A progress grade, “PR,” is given in certain approved courses to indicate that work is still in progress on a project that occupies more than one semester. This grade is changed to a final letter grade at the end of the term in which the work is completed.

The “PR” grade may also be given at the end of a term in courses specifically identified as competency-based to indicate that the student needs more time to demonstrate a mastery of the subject matter. In such instances, the “PR” grade will be converted to a letter grade by the instructor no later than the end of the subsequent term, excluding the summer. A "PR" grade not changed by this time is automatically converted to an "F:"

Grade of Withdrawal (W)

"W" represents a withdrawal properly processed within the period established for each semester. A grade of "W" shall appear on a student’s academic record for any course withdrawal(s) processed after the 14th day of the fall or spring semester through the 60% period of the semester. For summer semester courses, a grade of "W" shall appear on a student's academic record for any course withdrawal(s) processed after the 7th day of a session through the 60% period of the session. For courses involving foreign travel, the last day to drop a course with a "W" shall be the date at which the student first leaves the campus to begin the travel. Withdrawal after the designated date (or an improper withdrawal) is recorded as "F:" Withdrawal thereafter (or improperly done, at any time) is recorded as "F:"

Petitions for Late Withdrawal must be submitted within one year from the time a grade in the course was earned. If the grade resulted from circumstances over which the student had no control, the student may petition the appropriate dean for a late withdrawal. A Petition for Late Withdrawal and the Repetition Form cannot be used for the same course. In other words, Petition for a Late Withdrawal cannot be processed for any course that was repeated and a recalculation of point average processed and posted on the student’s academic record. Approved late withdrawals are recorded as "W:"

The Point Average and Scholastic Standing

The student’s scholastic standing is indicated by the quality point average (also called “grade point average,” “grade average,” or “point average”).

For determining this average, every grade has a quality point value for each semester hour it represents, as follows:

- A, four quality points
- B, three points
- C, two points
- D, one point
- F, zero points

For example, an A in a three-hour course is worth 12 quality points; a D in a four-hour course, four points; and an F in any course, zero points. To find the point average, the total number of quality points earned is divided by the total GPA hours. Thus, a student who earns 16 hours and 40 quality points has a point index of 2.50. Only grades of A, B, C, D, and F are included in the calculation of the point average.

Grading Options

Traditional Grade/No CREDIT (A,B,C,No Credit)

To receive credit for courses offered on a traditional grade/no credit basis, a student must earn a grade of "C" or better. If the student fails to do so, an "NC" is entered on the student's transcript.

An “NC” does not fulfill the requirements for satisfactory completion of the course; it does not affect the grade point average.

Audit (AU)

The "AU" grade indicates a student has registered for a course on an audit basis and has met the audit attendance requirement established by the instructor. Failure to meet the attendance requirement results in a grade of "AU (W:"

Students must indicate their election of the audit grading option at the time of registration or within the time limits established for adding a class. The audit option will not be changed to the standard grading option beyond the last day to add a class.

A student may audit any course. The student pays the full tuition, as well as any other applicable fee, for the course(s) audited. Audited courses are carried in a student’s load only for fee purposes. A student receiving financial aid
should confer with the Office of Financial Aid and Scholarships before electing to audit a course.

A student may not change registration from audit to credit status or from credit to audit status after the last day to add a class.

Credit/No-Credit (CR/NC)
Credit/no-credit grades are given in some specific courses as approved by the Academic Senate. Such courses are identified in the course descriptions.

Credit/No-Credit (CR/NC) (Student Option)
To encourage students to experiment with courses outside their major field of concentration, a credit/no-credit policy exists within the following guidelines.

• Youngstown State University students who have completed at least 15 semester hours of credit and have a grade point average of 2.00 or better, or transfer students admitted unconditionally who have at least 30 semester hours of transfer credit, may elect to take a course for credit/no-credit.
• The grade recorded for the student is not a letter grade, but either "CR" (credit) or "NC" (no-credit). If a student who has opted for CR/NC earns an A, B, or C in the class, the grade officially assigned is CR; otherwise it is NC. In either case, the grade point average is not affected.
• This option may be elected for a maximum of twelve (12) semester hours for the baccalaureate degree or six (6) semester hours for the associate degree. Courses offered only under the CR/NC option (by department designation) do not count as a student-elected credit/no credit class. Students are restricted to taking one CR/NC course per fall and spring semester and one CR/NC course per non-overlapping summer term.
• Courses taken under the CR/NC option may not be counted toward a student’s major or minor. Students should confer with their advisors prior to electing the CR/NC option.
• Students must indicate their election of the CR/NC option at the time of registration or within the time limits established for adding classes. The CR/NC option will not be changed to the standard grading option beyond the last day to add a class.

Changing of Grading Options
You may change your grading option only through the last day to add a class.

Excluding Older Grades (ACADEMIC FORGIVENESS POLICY)
A degree-seeking undergraduate student who re-enrolls at Youngstown State University after an absence of five or more calendar years may be eligible for academic forgiveness. At the time of the petition the student must be currently enrolled and have successfully completed at least 15 semester hours with a grade point average of no less than 2.00 following their return. An absence is defined as a period of time in which no enrollment activity (i.e. attempted or earned academic credit) is posted to a student’s record.

To request academic forgiveness an eligible student may petition the dean of his or her college to exclude from the calculation of the grade point average grades earned five or more calendar years before. If the petition is approved, all grades (not merely grades of D and F) earned during the specified quarter or semester and all previous grades (not merely grades of D and F) will then be removed from the calculation. However, all grades remain on the permanent record.

Excluded course credit will not count toward the total hours required for graduation. However, courses passed may fulfill general education requirements and may satisfy prerequisites for higher courses where applicable. Courses excluded may be taken again and repeated once without infringing upon repeat privileges specified in catalog course descriptions. Courses excluded are not subject to credit by examination. A student whose petition has been approved is ineligible for graduation honors. Only one petition from each student may be approved and is irreversible once it is applied. A student who has earned a degree or certificate from YSU may not petition for academic forgiveness.

Grade Reports
Final grades are available through the Penguin Portal.

Grade Changes
A request for a grade change must be made to the course instructor. Applications for grade changes must be signed by the instructor, department chair, and dean. All grade changes must be submitted by the dean or the instructor to the Office of Records; they will not be accepted from the student. After a degree has been conferred, in no case may a grade change be made for a course or courses taken while pursuing that degree.

A student’s academic record contains a complete history of his or her academic performance while earning a degree. Therefore, the academic record of a student who graduates may not be revised using a Grade Change Form, Repetition Form, Petition for a Late Withdrawal, or Academic Forgiveness.

In the case of a student who has completed an associate degree, the above policy may, on occasion, be waived, but only if the student is currently pursuing a baccalaureate degree. However, changes cannot be made in a student’s record which would affect the status of the awarded associate degree. Waivers must be approved by the appropriate dean.

Credit by Examination-Departmental
A currently enrolled student who can demonstrate ability and knowledge in a particular subject area may establish credit in certain courses without enrolling in them, by taking a special examination (through the appropriate department). An examination fee is assessed for each examination. The only grade possible is "CRX", and there is no effect on the student’s grade point average. For the examination fee, see “Fees and Expenses”. Information on courses for which credit by examination is possible may be obtained from the student's academic dean or the Office of Testing (http://cms.ysu.edu/administrative-offices/testing-center/testing-center/). Registration for departmental tests is done through the specific department.

Course Repeat
A student may repeat a course once, unless otherwise stipulated in the course description or unless an additional repetition is authorized by the student’s academic dean. If the course is a prerequisite to another course, the repetition must be successfully completed before the other course is taken. If the student has received credit for a more advanced course in the same subject, a repetition is treated merely as another course, along with the first, in calculating the point average, unless the student secures an approved repetition form for recalculation of point average from the dean of the college in which the student is enrolled. A course repeated, however, may be counted only once as credit toward a student’s total academic hours for graduation.

Credit towards graduation will not be given for a course on the semester system if the student has credit for the equivalent course on the quarter system.

Repetition of Courses & Recalculation of GPA
A current undergraduate student may wish to improve their cumulative point average by repeating a course in which a grade of "D" or "F" was earned. In order to recalculate the cumulative point average, the repetition must be consistent with the policy on course repeats, and the student must initiate the recalculation process with the approval of their advisor (or the dean, if it is a second repetition). A recalculation will be made for only the immediately preceding grade for the course, regardless of the number of repeats, and may be made only once for any course. All course attempts and grades appear on the student transcript, including grades not calculated in the GPA. After a
repetition form is approved and processed, the record is adjusted to reflect the inclusion of only the last grade in the computation of the point average. The hours credited toward degree hours completed are those earned with the last grade.

Only undergraduate students currently attending the university may request this recalculating privilege, and only courses taken at Youngstown State University may be used in recalculating the cumulative point average. Both the original course and the repeated course must be taken at YSU. Transfer, study abroad, and/or transient courses are not eligible to be used as a repetition. A post-baccalaureate student is not eligible to petition for a recalculating unless both the course and the repetition are completed subsequent to the conferring of the degree. A student holding an associate degree may petition after receiving the associate degree only if currently pursuing a bachelor degree.

The Repetition form and the Petition for a Late Withdrawal cannot be used for the same course. In other words, a Petition for a Late Withdrawal cannot be processed for any course that was repeated and a Repetition form processed and posted on the student's academic record.

All YSU grades, including grades of “D” or “F” deducted from accumulative totals as a result of an approved Repetition form, will be counted in determining honors for graduation.

Absence from Classes and Examinations

The problem of excessive class absence concerns instructor and student, and consequently requires their mutual effort. All students must realize that for their own welfare, they are expected to attend all class meetings of courses in which they are enrolled.

The instructor, however, has the prerogative of determining the relationship between class attendance, achievement, and course grades, and the responsibility for communicating the relationship to the students at the beginning of each term.

A student must have the instructor's consent in order to take any examination at a time other than that scheduled.

The faculty believes that classroom activities are essential to learning. The student is responsible for knowing and meeting all course requirements, including tests, assignments, and class participation, as indicated by the course instructor.

The responsibility for work missed during absence rests with the student. The instructor has no obligation to give make-up graded coursework or to review other class work missed by a student as a result of absence except under those specific conditions cited below:

- Participation in University-sponsored activities. University-sponsored activities are those that are scheduled by academic, student affairs, and athletic units. They include, but are not limited to: intercollegiate athletic competitions activities approved by academic units, including artistic performances; R.O.T.C. functions; academic field trips; professional conferences; and special events connected with coursework.
- Government-required activities, such as military assignments, jury duty, or court appearances.
- Religious observances that prevent the student from attending class.
- Documented personal illness.

Procedure

The following guidelines describe procedures for students, sponsors of appropriate activities, and instructors.

Students shall:

- Provide all scheduled activity dates to their instructors at the start of the semester. For unforeseen absences, notify the instructor as early as possible in the semester of the upcoming activity.
- In the case of a University-sponsored event, provide the sponsor of the activity with a list of classes that conflict with the proposed activity.
- In the event the absence was due to illness or injury, verification from a health center or medical professional should be presented to the instructor. If the illness was not severe enough to warrant a medical visit, instructors should use their best judgment in determining if it should be excused.
- Be responsible for all material covered in class during their absence. Students are responsible for completing any work resulting from their absence. In no case is an excuse from class to be interpreted as a release from class responsibility.
- Out of courtesy, remind the instructor of the absence approximately one week prior to the absence.

Sponsors of University-sponsored activities shall:

- Provide each participating student with a signed letter for each of the student's affected classes to be given to their instructors, including time, date, and location of the event. This letter should be provided at the beginning of the semester, or as early as possible in the semester.
- Address any concerns a faculty member might have related to the scheduled activity.

Instructors shall:

- Inform the student about graded coursework that will be or was missed.
- Determine an alternative due date for graded coursework missed.

CONTACT FOR QUESTIONS/CONCERNS

Office: Office of the Registrar
Location: Meshel Hall
Website: https://ysu.edu/registrar-office/grades (https://ysu.edu/registrar-office/grades/)

Graduation Requirements

Catalog of Entry

The Undergraduate Catalog in effect when a student first enrolls at the university or any one subsequent catalog will be the guide to graduation requirements, provided the student is in continuous attendance and does not change majors.

When a student changes majors, the guide to graduation requirements will be the catalog in effect at the time of change or any one subsequent catalog. Exceptions to this rule include the requirements for the minor and general education requirements. Unless the minor is specified by the new major, a student who has been in continuous enrollment and changes majors can fulfill the requirements for a minor by using the criteria in effect in either the catalog of entry or the catalog in effect at the time of the change in major.

See the section on General Education Requirements (https://catalog.ysu.edu/undergraduate/general-information/academic-policies-procedures/general-education-requirements/) for the relevant policy on general education.

Readmitted students will use the catalog in effect at their last readmission or any one subsequent catalog as the guide to graduation requirements. Any exceptions to requirements must be approved by the student's department chair and/or college dean. The university reserves the right to change course offerings and academic requirements.
Candidacy for a Degree
Youngstown State University confers degrees and certificates three (3) times a year:
- May for Spring graduates
- August for Summer graduates
- December for Fall graduates
Please refer to the academic calendar for specific conferral dates.

To be eligible for candidacy for any degree, students must fulfill the following four requirements:

Application
You must file a Request for Graduation Evaluation form with the dean of your college after the completion of 40 semester hours for the associate and 100 semester hours for the baccalaureate degree.

An Application for Graduation form must be filed by the deadline indicated in the University Academic Calendar. The application is available on the student’s YSU Penguin Portal. If a student fails to carry out the proper application procedures by the published deadlines, the degree will not be granted. Instead, the student must complete a graduation application and have the degree conferred for the next term.

If the student does not graduate for the term which the original application has been filed, the student must reapply by the published deadlines. The student must fulfill the University-wide, college, and departmental requirements as well as the minimum credit hours.

Residency
The last 20 semester hours leading to an associate degree and the last 30 semester hours leading to a baccalaureate degree must be completed at Youngstown State University. (In the pre-forestry, pre-law, and pre-medical curricula, however, which allow the student to earn final credit hours in absentia, the last 30 semester hours prior to the period of absence must be spent at Youngstown State University.) A minimum of 16 semester hours in the concentration area for the associate degree, and a minimum of 16 hours of credits in the major in the baccalaureate degree, must be attained in residence. A minimum of 21 semester hours of upper-division credit for the baccalaureate degree must be earned in residence. Exceptions must be approved by the Office of the Provost. Additional requirements may be specified by individual colleges.

Prerequisites
No student may receive credit towards graduation for a course that is a prerequisite for a more advanced course which the student has already successfully completed, unless an exception to this policy is recommended by the appropriate chair and approved in writing by the student’s academic college dean.

Grades
The cumulative point average must be at least 2.00 (see The Point Average and Scholastic Standing (p. 26)) at the time candidacy is approved and at the time the degree is granted.

Additional requirements for the baccalaureate and associate degree appear below.

Baccalaureate Degree
A minimum of 120 semester hours must be successfully completed to earn a bachelor’s degree. In addition to requirements stated under Candidacy for a Degree, the following requirements must also be fulfilled for a baccalaureate degree:

Course Levels
At least 60 semester hours must be completed in courses numbered 2600 or higher; at least 39 of these 60 hours must be in courses numbered 3700 or higher. (Updated 12/5/2019)

Majors
Each student must complete a major. A department major consists of at least 30 semester hours of an approved set of courses. A combined major, in which courses are given by more than one department, consists of at least 42 semester hours. At least two disciplines must be represented in a combined major with the core discipline having the majority and at least 12 s.h. coming from outside of the core (these 12 s.h. may be spread over multiple disciplines, but at least 6 s.h. must be at the 3700-level or above). All grades in the major must be "C" or better.

Each department determines the course requirements for its own major or majors. Responsibility for certifying that a student has completed a major rests with the chairperson of the major department. The student may be required to do more than the minimum stated in the preceding paragraph.

As soon as a student has decided on a major, he or she should consult with the department chair of the major department. A major must be declared by the time a student has achieved junior standing. Early consultation with the department chair is strongly recommended, since in some departments the student must begin coursework related to the major during the freshman year or risk a delay in graduation. (Updated per 3/4/2020 Academic Senate resolution.)

Minors
A minor is an intellectual venture that broadens and deepens the student’s intellectual growth. An intellectual framework and coherence are evident in the scope and sequence of the minor course of study. A minor is intended to contrast with or deepen the major or General Education and is to be taken in a discipline other than that of the major. In approved interdisciplinary minors, courses from the student’s major discipline can be counted in the minor provided that the same courses are not counted toward the major. Each student must complete a minor, unless the student has a combined major or is enrolled in a professional or technical curriculum that does not require a delineated minor. Check with an academic advisor for specific information.

A minor consists of at least 12 hours (but not more than 19 hours) of an approved, published set of courses as listed in the Undergraduate Catalog. All grades in the minor must be "C" or better. Courses taken under the Credit/No Credit option may not be counted toward the minor. Upper-division courses must comprise at least 6 s.h. in the minor. Each department develops the specific pattern or sequence of courses for any minor(s) it offers. However, the department in which the student receives the major is responsible for certifying that a student has completed a minor. Certification will be guided by the description of minors published in the Undergraduate Catalog. Students should declare a minor prior to their junior year.

Courses which fulfill requirements of both a major and a minor may be counted toward the completion of both the major and the minor, up to but not to exceed one-third of the total course hours of the minor. Autonomy to approve courses rests solely within the department of the minor for each course that is to be considered for both the major and the minor. Formal approval will be conducted by chairpersons upon consultation with expert faculty within their department. (Updated 4/7/2021)

An individualized minor may be developed and approved through the Individualized Curriculum Process (https://ysu.edu/academics/beeghly-college-liberal-arts-social-sciences-education/individualized-curriculum-program/) (ICP). Transfer students may also use the ICP process for approval of a minor course of study. An official minor is designated on the student’s transcript at the time the degree is awarded. In instances when extenuating circumstances are present, students who have taken courses that meet the guidelines of a minor (a minimum of 12 s.h. in a discipline with at least 6 s.h. at 3700-level or above) but do not have the designated courses of the official minor may declare an unofficial minor to meet graduation requirements. Only
certain rights with respect to their education records. They are:

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

For a list of minors and their requirements see Minors List (https://ysu.edu/academics/).

**Associate Degree**

A minimum of 60 semester hours must be successfully completed in order to earn an associate degree. Students in associate degree programs must take a minimum of six general education courses, including Writing I and Writing II, and four additional courses selected from at least three of the following areas: mathematics, speech, natural science, arts and humanities, social science, or social and personal awareness. No more than one course counted toward the requirement may be in mathematics. Students should check with their departments to see if certain general education courses are mandated by their program.

**Certificates**

A certificate identifies a concentration of study in an academic area. There are a limited number of academic areas where certificates are available, and students should consult the program descriptions for this information. All grades for the certificate must be "C" or better.

**Commencement**

Graduation ceremonies (commencement) occur twice a year. Fall commencement is held in December, and spring commencement is held in May. Students who graduate in summer are invited to participate in either spring or fall commencement activities.

Participation in the commencement ceremony does not indicate the completion of degree requirements. The transcript is the official academic record and will indicate any degrees that have been conferred.

**CONTACT FOR QUESTIONS/CONCERNS**

Office: Advisement Office (in which your major lies)
Location: Academic College (in which your major lies)

**Notification of Rights Under FERPA**

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

1. **The right to inspect and review the student's education records within 45 days of the day the university receives a request for access.**

   A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The university official will make arrangements for access and notify the student of the time when and the place where the records may be inspected. If the records are not maintained by the university official to whom the request was submitted, such official shall advise the student of the correct official to whom the request should be addressed.

2. **The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights.**

   A student should write the university official responsible for the record in question, clearly identifying the part of the record the student wants changed, and specifying why it is inaccurate, misleading, or otherwise in violation of the student’s privacy rights.

   If the University decides not to amend the record as requested by the student, the university will notify the student of the decision in writing and advise the student of their right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. **The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.**

   Personally identifiable information is information that, if disclosed, would make a student's identity easily traceable, e.g., name, address or social security number. An exception which permits disclosure without consent is disclosure to university officials with legitimate educational interests. A university official is a person employed by Youngstown State University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the university has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student or volunteer serving on an official committee, or assisting a university official in performing their tasks.

   A university official has a legitimate educational interest if the official needs to review an education record in order to fulfill their professional responsibility for Youngstown State University. Also, the requirement for consent does not apply to the following:

   - Requests by officials of another institution where the student seeks to enroll or is already enrolled for purposes related to enrollment or transfer.
   - Requests in compliance with a lawful subpoena or judicial order.
   - Requests in connection with a student's application for or receipt of financial aid.
   - Requests by state authorities and agencies specifically exempted from the prior consent requirements by FERPA, conducting studies on behalf of the university, if such studies do not permit the personal identification of students to any persons other than to representatives of such organizations and if the personal identification data is destroyed when no longer needed.
   - Information submitted to accrediting organizations.
   - Requests by parents of a dependent student, when claimed by a parent on one's Federal Income Tax Return.
   - In the case of a health or safety emergency, the university may release information from education records to appropriate persons in connection with an emergency, if the knowledge of such information is necessary to protect the health or safety of a student or other persons.
   - To authorized federal officials who have need to audit and evaluate federally-supported programs.
   - The results of any disciplinary proceeding conducted by the university against an alleged perpetrator of a crime of violence or non-forcible sex offense to the alleged victim of that crime.
   - Disclosure to a parent of an underage student in violation of university policy governing the use or possession of alcohol or drugs.

4. **The right to prevent the university from disclosing any or all of the information about the student the university has designated as directory information.**

   FERPA permits the disclosure of directory information without the consent of the student. Directory information is information contained in a student education record which would not generally be considered harmful or an invasion of privacy if disclosed. Youngstown State University has designated the following types of information as directory information:

   - name;
   - address (local, home, and email);
   - telephone listing (campus and home);
   - enrollment status (e.g., full-time, part-time, withdrawn);
   - field of study (including college of enrollment, major and campus);
   - participation in officially recognized activities and sports;
   - weight and height of members of athletic teams;
   - dates of attendance and graduation;
   - degrees, honors, and awards received;
   - previous educational institutions or agencies attended; and
   - photographic, video or electronic images of student.
Any student wishing to exercise this right must inform the Registrar in writing by submitting the Student Privacy Hold form. If no such written notification is submitted, the university will assume that a student does not object to the release of the directory information. A student's request for such non-disclosure will remain in effect until the student notifies, in writing, the Registrar otherwise.

5. The right to file a complaint with the U.S. Department of Education concerning alleged failures by Youngstown State University to comply with the requirements of FERPA.

The name and address of the office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, S.W.
Washington, D.C. 20202-5920

Sharing Academic Record Information with Others

A student may authorize a third party (i.e., a parent, guardian, spouse, etc.) access to academic record information. A university-wide authorization form is available at the Penguin Service Center. The authorization form permits release of specified information on-demand to the specified third party. If no authorization is on file for a student, it will be assumed that the student does not want to give a third party access to academic record information. A student with an authorization on file may also rescind that authorization at any time by signing the rescind line of the authorization. This policy is designed to give students specific control over the parties to whom protected academic record information may be released.

Contact for Questions/Concerns

Office: Office of the Registrar
Location: Meschel Hall
Website: https://ysu.edu/registrars-office/ferpa (https://ysu.edu/registrars-office/ferpa/)

Ohio Residency

Ohio student residency for state subsidy and tuition surcharge purposes

1. Intent and authority
   a. It is the intent of the chancellor of the Ohio Department of Higher Education in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the state of Ohio primarily for the purpose of receiving the benefit of a state supported education.
   b. This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the chancellor of the Ohio Department of Higher Education by section 3333.31 of the Revised Code.

2. Definitions
   a. "Resident" shall mean any person who maintains a twelve-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state public assistance, and who may be subjected to tax liability under section 5747.02 of the Revised Code, provided such person has not, within the time prescribed by this rule, declared themselves to be or allowed themselves to remain a resident of any other state or nation for any of these or other purposes.
   b. "Financial support" as used in this rule, shall not include grants, scholarships and awards from persons or entities which are not related to the recipient.
   c. An "institution of higher education" shall have the same meaning as "state institution of higher education" as that term is defined in section 3345.011 of the Revised Code, and shall also include private medical and dental colleges which receive direct subsidy from the state of Ohio.
   d. "Domicile" as used in this rule is a person's permanent place of abode, so long as the person has the legal ability under federal and state law to reside permanently at that abode. For the purpose of this rule, only one domicile may be maintained at a given time.
   e. "Dependent" shall mean a student who was claimed by at least one parent or guardian as a dependent on that person's internal revenue service tax filing for the previous tax year.
   f. "Residency Officer" means the person or persons at an institution of higher education that has the responsibility for determining residency of students under this rule.
   g. "Community Service Position" shall mean a position volunteering or working for:
      i. VISTA, Americorps, City Year, the Peace Corps, or any similar program as determined by the chancellor of the Ohio Department of Higher Education; or
      ii. An elected or appointed public official for a period of time not exceeding twenty-four consecutive months.

3. Residency for subsidy and tuition surcharge purposes.

The following persons shall be classified as residents of the state of Ohio for subsidy and tuition surcharge purposes:

- A student whose spouse - or a dependent student, at least one of whose parents or legal guardian - has been a resident of the state of Ohio for all other legal purposes for twelve consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.
- A person who has been a resident of Ohio for the purpose of this rule for at least twelve consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding twelve consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.
- A dependent student of a parent or legal guardian, or the spouse of a person who, as of the first day of a term of enrollment, has accepted full-time, self-sustaining employment and established domicile in the state of Ohio for reasons other than gaining the benefit of favorable tuition rates.

Documentation of full-time employment and domicile shall include both of the following documents:

a. A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent, legal guardian or spouse of the student is employed full-time in Ohio.

b. A copy of the lease under which the parent, legal guardian or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent, legal guardian or spouse is the owner and occupant; or if the parent, legal guardian or spouse is not the lessee or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that the parent, legal guardian or spouse resides at that residence.

Additional criteria which may be considered in determining residency may include but are not limited to the following:

1. Criteria evidencing residency:
   a. If a person is subject to tax liability under section 5747.02 of the Revised Code;
   b. If a person qualifies to vote in Ohio;
   c. If a person is eligible to receive Ohio public assistance;
   d. If a person has an Ohio's driver's license and/or motor vehicle registration.

2. Criteria evidencing lack of residency
a. If a person is a resident of or intends to be a resident of another state or nation for the purpose of tax liability, voting, receipt of public assistance, or student loan benefits (if the student qualified for that loan program by being a resident of that state or nation);
b. If a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of public assistance (see paragraph (D)(2)(a) of this rule).
c. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the United States.

Exceptions to the general rule of residency for subsidy and tuition surcharge purposes:

1. A person who is eligible, or whose benefits have been exhausted or have expired, for benefits under the Post 9/11 Veterans Educational Assistance Act of 2008 or any prior federal act establishing veterans' education benefits, who has been honorably discharged or released from service, who, as of the first day of a term of enrollment, is domiciled in Ohio, and his or her spouse and dependents, shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.

Documentation determined to be acceptable by the institution:

1. DD214 or other military document showing honorable discharge.
2. Documentation of domicile shall include a copy of the lease under which the person or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the person or spouse is the owner and occupant; or if the person or spouse is not the lessee or owner of the residence in which he or she has established domicile, a letter from the owner of the residence certifying that the person or spouse resides at that residence.

Procedures

1. A dependent person classified as a resident of Ohio for these purposes under the provisions of paragraph (C)(1) of this rule and who is enrolled in an institution of higher education when his or her parents or legal guardian removes their residency from the state of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.
2. In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of twelve months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph (C)(1) or (C)(2) of this rule.
3. For students who qualify for residency status under paragraph (C)(3) of this rule, residency status is lost immediately if the employed person upon whom resident student status was based accepts employment and establishes domicile outside Ohio less than twelve months after accepting employment and establishing domicile in Ohio.

Reclassification

1. Any person once classified as a nonresident must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. It is the student's responsibility to initiate contact. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding twelve consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident. Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of documentation regarding the sources of a student's actual financial support.
2. Any reclassification of a person who was once classified as a nonresident for these purposes shall have prospective application only from the date of such reclassification.
3. Any institution of higher education charged with reporting student enrollment to the chancellor of the Ohio Department of Higher Education for state subsidy purposes and assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

Contact for Questions/Concerns

Office: Office of Admissions
Location: Sweeney Hall
Website: https://ysu.edu/admissions (https://ysu.edu/admissions/)
Student Complaints and Appeals

Youngstown State University is committed to the continuous improvement of the services it provides to its students. On occasion, a student may have a complaint regarding the fairness or quality of service they received. Students are encouraged to share their concerns pursuant to this policy so that the university may address issues in a timely and professional manner.

If students experience a problem on campus, they are encouraged, but not required, to try resolving it by speaking directly with the staff, faculty member, or administrator with whom they have had an issue. If the problem still exists, the following resources are provided to aid a student in coming to a resolution.

Academic-Related Complaints (Excluding Grade Appeals)

Academic-related complaints are student complaints related to fulfillment of responsibilities or services provided by departments within academic affairs, including but not limited to academic colleges, academic departments, student success, distance education, library, mathematics assistance center, reading and study skills, and writing center.

Students can submit a complaint here. YSU will keep student information confidential to the fullest extent of the law.

Academic-Related Complaints with Grade Appeals

Student complaints concerning academic matters related to material deviation from the grading scale or weight distribution indicated on the course syllabus by the faculty member, to the detriment of the individual student or the entire class, or involving material deviation of faculty contractual obligations as specified in the article on Teaching Rights and Responsibilities in the Faculty Collective Bargaining Agreement, to the detriment of the individual student or the entire class, must follow procedures outlined here. All decisions made by this board are final and binding.

Tuition Appeals

Any withdrawal or reduction in academic hours after the posted schedule will not be entitled to a reduction of charges and/or refund unless an Application for Involuntary Withdrawal is submitted and approved by the Fees and Charges Appeal Board. All decisions made by this board are final and binding.

If a student withdraws for reasons beyond his or her control (e.g., illness, military service, job transfer, or shift change imposed by the employer that creates a direct conflict with the class schedule), the fee charges may be reduced in proportion to the number of weeks enrolled, upon submission and approval of an application for involuntary withdrawal.

An application for involuntary withdrawal can be processed only for courses in which the student has already received a grade of "W" (withdrawn). Applications for involuntary withdrawal will be considered only for terms falling within the immediately preceding one-year time period (three semesters). Appeals pertaining to terms beyond this one-year time limit will not be accepted. All applications for involuntary withdrawal must be documented, and applications are processed only by mail on forms provided by Office of University Bursar. Address such correspondence to:

Fees and Charges Appeals Board
C/o University Bursar

Youngstown State University
One University Plaza
Youngstown, OH 44555

More information can be found here.

Discrimination, Harassment, or Retaliation

Faculty, staff, students, or others who experience discrimination, harassment or retaliation have several options for reporting such concerns. Inappropriate student behavior may be reported to either the Office of Student Conduct (any such behavior), or the Title IX office (including any behavior based on sex or gender, such as sexual harassment, sexual assault, stalking, etc.). Inappropriate behavior by faculty, staff, or others should be reported to the Office of Equal Opportunity and Policy Development, Title IX, or Human Resources. If the reporting party feels they are in danger, they should also contact YSUPD.

More information can be found here.

Non-Academic Complaints

A non-academic complaint is a student complaint related to the services and responsibilities provided by the departments and divisions of budget and finance, enrollment management and planning, equal opportunity and diversity, facilities, human resources, multicultural affairs, and student experience.

Other Complaints

Complaints or concerns not listed here can be filed through YSU's reporting system. YSU will keep student information confidential to the fullest extent of the law. Students who would like to make an anonymous complaint are encouraged to use YSU's ethics reporting process, which is hosted by a third party and can maintain student anonymity.

Complaints to External Agencies

Student Complaints to the Ohio Department of Higher Education

The Ohio Department of Higher Education (ODHE) is responsible for responding to formal complaints against public, independent non-profit and proprietary institutions of higher education in Ohio. Although the ODHE has limited authority over colleges and universities and cannot offer legal advice or initiate civil court cases, the Chancellor’s staff will review submitted complaints and work with student complainants and institutions.

Complaints not under the Chancellor’s jurisdiction:

- Complaints filed more than two years after the incident
- Grad disputes
- Student conduct violations
- Criminal misconduct
- Violations of federal law

If a student is unable to resolve a complaint through YSU's established complaint process, the student should contact the Ohio Department of Higher Education to use the online complaint form.

Student Complaints to the Pennsylvania Department of Education

For additional information, contact:
Pennsylvania Department of Education
Bureau of Postsecondary and Adult Education
333 Market Street, 12th Floor
Harrisburg, PA 17126-0333

If a student is unable to resolve a complaint through YSU's established complaint process, the student should contact the Pennsylvania Department of Education to use the Higher Education Complaint Form (http://www.education.pa.gov/Documents/Postsecondary-Adult/College%20and%20Career%20Education/Colleges%20and%20Universities/Higher%20Education%20Complaint%20Form.pdf).

Student Resources:
Student Outreach Support (https://ysu.edu/student-experience/student-outreach-support/)
Director: Nicole Kent-Strollo
Kilcawley Center 2101
(office) 330.941.4721
(cell) 330.717.2613

Student Government (http://sga.ysu.edu/)
The YSU Student Government supports students and assists them with the proper procedures regarding the filing of and hearings for academic related complaints with grade appeals. For more information, click here (http://sga.ysu.edu/).

Contact for Questions/Concerns
Office: Dean of Students
Location: Kilcawley Center
Website: https://ysu.edu/student-experience/student-outreach-support

Student Record Information and Transcripts

Changing Student Demographic Information
Students may formally change certain personal information on their record with supporting documentation. The following demographic information may be changed:

- Address: Students may change their permanent address and add a mailing address different than permanent.
- Name: Students may change their first, middle or last name with a valid State or Federal issued photo ID and legal documentation supporting the change(s).
- Preferred Name: Students may add a preferred first name to their account that will appear in place of their legal first name on the Penguin Portal, Blackboard and Early Alert.
- Gender

To make a change, students should fill out the Student Change of Information (https://ysu.edu/registrars-office/student-change-information-form/) and return it to the Penguin Service Center.

If a typographical error has occurred in the student's name, social security number, or date of birth due to incorrect information submitted during the time of application, a copy of an original document must be provided verifying the correct information. Documents that can be provided include, for example, birth certificates, passports, social security cards, driver's licenses, or other documents issued by federal, state, or local government agencies.

Transcripts
The official transcript is a record of all coursework taken at Youngstown State University. A student's academic record contains a complete history of the student's academic performance. The transcript (grades and other notations) is finalized when a degree is officially posted to the permanent academic record. Therefore, the academic record of a student who graduates may not be revised using a Grade Change Form, Repetition Form, Petition for a Late Withdrawal, or Statute of Limitations.

The files maintained by the Office of Student Conduct are separate from transcripts, which are maintained by the University Registrar. If a student is expelled from the university due to a violation of The Student Code of Conduct, the expulsion is noted on the student's official transcript indefinitely and cannot be removed. Students who have been suspended due to misconduct and request an official transcript during the time period of their suspension may have an addendum added to their transcript at the discretion of the Office of Student Conduct. This addendum will be removed once the period of suspension elapses.

Students are advised that most graduate/professional schools and many employers accept transcripts only if sent directly by the university. Current and former students, as well as alumni, can request an official transcript for academic work completed at Youngstown State University. Please be aware that only the student may request an official transcript. Photo identification is required if ordering a transcript in person. Transcripts will be released only for those students who do not currently have a financial or administrative obligation to the university.

An official transcript will only verify YSU courses completed. Transcripts may be ordered online at the YSU website (http://cms.ysu.edu/administrative-offices/registrar/transcript-request/) or in person.

For release of transcripts with administrative or financial holds, the originating office (Bursar’s, etc.) must provide a written authorization to Records Services to release a transcript once it has been ordered.

unofficial printout
Current students may access and print their unofficial record from their Penguin Portal.

Unofficial printouts are also available in person at the Penguin Service Center, 2nd floor, Meshel Hall. Please bring photo ID. The unofficial printout is a copy of the student's coursework on plain paper, and is not validated in any way.

CONTACT FOR QUESTIONS/CONCERNS
Office: Penguin Service Center
Location: Meshel Hall
Website: https://ysu.edu/registrars-office/request-transcript

Transient Student Authorization
Under certain circumstances, it may be appropriate for students to complete coursework at another accredited college or university while still enrolled at Youngstown State University. Current students who desire to take a course(s) from another institution must receive approval from the dean or the dean's
designee for the college in which the student’s major lies by submitting a "Transient Student Authorization" request. The request requires students to list the course or courses they wish to take at the other institution to be certain the coursework is applicable to their degree. If the form is completed after the course(s) is taken, applicability cannot be guaranteed; students are strongly encouraged to gain approval before completing coursework.

To receive credit for approved transient coursework, the student must:

- Receive a grade of "C" or better
- Attend Youngstown State University the semester following the completion of the transient term
- Submit an official transcript from the other institution to the YSU Office of Admissions.

CONTACT FOR QUESTIONS/CONCERNS
Office: Advisement Office (in which your major lies)
Location: Academic College (in which your major lies)

Voluntary and Involuntary Medical Leave/Withdrawal

Medical leave/withdrawal is available for all students (undergraduate and graduate-level) with a documented physical or psychological illness of a serious nature that requires them to leave the university after the last day to withdraw with a grade of "W" without completing their coursework, or that requires them to withdraw from the university for up to two consecutive semesters. Students who have reported an incident to the Title IX office may also be eligible for a medical withdrawal under this policy. After two consecutive semesters, a student who does not take appropriate steps to return to the university will be deemed officially withdrawn. Students must intend to withdraw from all coursework to be eligible for medical leave. Approved medical leave does not guarantee students the ability to return to the university without approval from the dean of students (or designee).

Voluntary Medical Leave/Withdrawal

Medical leave requests are processed through the Division of Student Affairs and approved by the dean of students. The dean of students may grant a student medical leave in place of the student requesting late withdrawal through their academic college. Request for medical leave must be submitted on or before the last day of regular classes of the term from which the student wishes to withdraw. The Dean of Students will not retroactively withdraw students from previously completed terms. Students must follow the existing process to receive a retroactive medical withdrawal.

Students are encouraged to discuss medical issues with a licensed healthcare provider as soon as it becomes apparent that their health is preventing them from successfully completing their work. This serves both the best interests of the student and the university. In order for a medical leave request to be considered, students must provide official documentation from a licensed healthcare provider.

Documentation may be submitted via the online application form, fax, U.S. mail, or by dropping off the documents at the dean of student’s office (103 Kilcawley House). The official documentation must contain the following information:

- The care provider’s name on office letterhead
- A brief statement identifying the student as a patient or client
- The date of illness onset

- Dates of medical care
- The general nature of the student’s medical condition
- The impact of the student’s medical condition on their coursework
- The most recent date that the student was able to attend classes
- The length of time (up to two consecutive semesters) that the student will require medical leave

Upon receipt of the aforementioned information, the dean of students will work with the Medical Withdrawal Review Committee to authenticate the documents. The committee is comprised of the Director of Student Counseling Services, Associate Director for Accessibility Services, Associate Vice President for Student Experience, Associate Vice President for Student Enrollment and Business Services, Assistant Dean of Students for Community Standards, Advocacy, and Conduct, and Student Advocacy and Support Case Manager. This group reserves the right to discuss documents and request authentication from the university’s currently contracted health center as necessary. After the documents have been authenticated, the Dean of Students will approve or deny the request.

If medical leave is approved, the following will occur:

- The dean of students will notify the student, the Office of the Registrar, the Bursar’s Office, the Office of Financial Aid and Scholarships, the student’s college dean and the student’s department chair that leave was approved.
- The Registrar’s Office will adjust the student’s transcript to reflect a grade of "W" for all semester courses. Grades of "W" do not affect GPA or a student’s academic standing.
- The Bursar’s Office will audit the student’s account and bill for any outstanding fees. The audit may take up to 30 days to conclude. If the student has no active balance, or has a credit on their account, they will receive a statement containing this information. Students who are approved for medical leave may receive a reduction of tuition fees in proportion to the number of weeks in attendance in accordance with the late withdrawal date established by the Bursar’s office.
- If the student lives in university housing, the dean of students will notify the Office of Housing & Residence Life of their medical leave. The student is individually responsible for scheduling a time to vacate their residential space and return room keys.
- If the student receives veteran’s benefits, is an international student on a visa, or is an NCAA athlete on scholarship, the student must independently notify the appropriate office(s) to avoid disruption to aid, additional benefits, or eligibility.
- If the student is a dependent, the dean of students does not notify their parents/guardians of the medical leave, unless the student signs a release of information waiver.
- The decision is final; however, additional supporting documentation will be considered if received prior to the above deadline. Students may also submit future applications as appropriate due to change(s) in circumstances.

Involuntary Medical Leave/Withdrawal

In order to provide a safe environment in support of the university mission, a student may be required to take involuntary medical leave when their behavior, relative to their illness, is incompatible with community standards. Requiring a student to take a leave of absence is rare and only considered when no reasonable accommodations can adequately reduce the risk(s) described below. The Dean of Students will review information and consult with the University CARE Team, Medical Withdrawal Review Committee, and/or others with knowledge of the situation on a case-by-case basis as appropriate. The Dean of Students will issue a notice to the student in writing that an involuntary leave of absence is under consideration.

Students may be considered for involuntary medical leave if:

- Objective evidence suggests a significant risk to the student’s health or safety and/or the health or safety of others including but not limited
to significant risk of suicide, persistent self-harm and/or homicidal intentions.

- The student's physical/psychological illness requires specialized services unavailable at the university or locally.
- The student’s behavior severely disrupts the university environment causing significant emotional and/or physical distress to other students, staff, and/or faculty in the classroom, campus community, or within the living learning community. Such disruption may stem from a single incident or a pattern of ongoing behavior.
- The student has not complied with previously established assessment and/or treatment plans required by university officials. Failure to follow these plans of action increases the likelihood that a student’s behavior progresses toward long-term impairment and inability to function as a successful student at the university.

A student may appeal the decision for involuntary withdrawal in writing to the Division of Student Affairs within five (5) business days of notice of the involuntary withdrawal. The associate vice president for student enrollment and business services or associate vice president for student experience or designee (other than the dean of students) will review the appeal and provide a decision in writing within eight (8) business days of receipt. While this is the final level of appeal, the appellate authority has the discretion to alter or extend the return date on a case-by-case basis. During the appeals process, the university reserves the right to initiate or uphold interim measures such as removal from campus or residential housing.

Effective Date of Medical Leave/Withdrawal and Possible Extension of Leave Status

The effective date of approved medical leave is the last day the student attended class. A student’s one or two-semester leave period will commence on the first day of the subsequent academic semester. A student on a one-semester medical leave may request an additional one-semester extension by submitting a written request to the dean of students at least 60 days prior to the desired semester of continued leave. Additional documentation may be necessary for approval of an extension. A decision approving or denying extended medical leave will follow the same process described in the section entitled “Medical Leave Process.” The dean of students has the discretion to alter or extend the return date on a case-by-case basis.

Returning to the University

Students on medical leave are not regarded as having permanently withdrawn from the university and are not required to apply for readmission unless the leave period exceeds two consecutive semesters. Upon departure from the university, a medical leave hold will be placed and remain on a student’s account, inhibiting them from registering for courses until all responsibilities have been met for re-entry.

A student requesting to return from medical leave must:

- Have a licensed care provider provide a specific diagnosis and a detailed report discussing the nature of the psychological or medical illness, the major symptoms of the illness, and how the illness might affect the student in the university environment.
- Have their licensed healthcare provider establish and outline a treatment plan, including necessary medications and any substantial side effects that could impair the student’s ability to return to campus. Any recommended accommodations should be included in the report, if long-term disability exists.
- Provide a signed release of information allowing the Dean of Students, Student Advocacy and Support Case Manager, and Director of Student Counseling Services (only if reason for leave was related to a psychological issue) to communicate with the licensed healthcare provider to determine readiness to return to the University (if additional information is needed).
- Provide proof of progress toward or completion of active recommendations from the licensed healthcare provider.
- Complete any required student conduct sanctions stemming from prior behavioral incidents, if applicable.
- Assure all above documentation is received via the online application form, fax, U.S. mail, or by dropping off the documents at the Dean of Student’s office at least 60 days prior to the desired semester of return.

Upon receipt, the dean of students will work with the Medical Withdrawal Review Committee to review the aforementioned information, determine whether requirements have been satisfied, and establish if the student is ready to return to campus.

The decision is final; however, additional supporting documentation will be considered if received within the 60-day timeframe prior to desired semester of return. If approved to return to the university, agree to meet with the Dean of Students, Student Advocacy and Support Case Manager, and/or other appropriate designee for regular check-ins, as requested.

A resolution letter outlining the status of the medical withdrawal and the guidelines for return will be forwarded electronically to the following appropriate offices: Registrar’s Office, Bursar’s Office, college dean and department chair, Office of Financial Aid and Scholarships, and Housing and Residence Life (if appropriate).

contact For Questions/Concerns
Office: Dean of Students
Location: Kilcawley Center
Website: https://ysu.edu/student-experience/student-outreach-support

Withdrawal from a Course/Semester

Course withdrawal indicates that a student intends to stop attending any or all courses for the current term. Course withdrawal for summer, fall and spring semesters can be accomplished at several times and deadlines are posted on the Office of the Registrar website. Students will use the Penguin Portal self-service registration functions to withdraw from one or more courses by the deadlines.

- Students have until the 14th day of a full term to withdraw from a course or all courses and receive a 100% refund and no academic penalty or record of course registration; students withdrawing from an 8 week or less part of term course have until the 7th day.
- Students may also withdraw from courses after the refund period. Students who withdraw during by the 60% deadline for the term or part of term are responsible for all financial obligations and earn a grade notation of a “W” on their transcript.
- After the "W" deadline, students can no longer access withdrawal functions in the Penguin Portal to withdraw from any courses. Students may submit a request for withdrawal in writing to the Penguin Service Center, but the withdrawal will result in a mark of "F" recorded on a student’s transcript.
- When a withdrawal changes a student’s status (i.e., full-time to part-time), the student immediately forfeits any privileges contingent upon full-time status, and all interested parties which legally require it will be notified.

Students who fail to withdraw from a course by the deadline, regardless of their level of class participation/attendance, are financially and academically responsible. Non-attendance of class, or notification to the instructor/department, does not constitute official withdrawal. A student’s lack of participation/attendance will likely result in the course instructor submitting a Non-Attendance F (NAF) grade for the student and a mark of “F” will be recorded on the student’s transcript. Therefore, all students are strongly encouraged to withdraw before the published deadlines.

Process/Procedure

All course registration takes place online through the Penguin Portal and students are not considered withdrawn from a registered course unless they have completed the withdrawal process. Detailed instructions on registration,
Withdrawal from the University

The decision to leave Youngstown State University and not return is not an easy one to make. There are several reasons why a student might choose to exit the university at the end of a semester. A student may plan to:

- Transfer to another institution
- Take a break in education and return at an unidentified date
- Leave the university without a definite plan to return

It is the university's sincere hope to retain all students as members of the university community. However, if a student has decided to leave the institution on a temporary or permanent basis, we ask the student to submit an "University Exit Request" in the Penguin Portal. The exit request does not apply to students who just wish to drop a course or completely withdraw from the current semester but maintain their enrollment eligibility. Students who wish to withdraw from the current term and have plans to re-enroll the next semester should refer to the "Withdrawal from Course/Semester" section of the catalog.

Process/procedure

The University Exit Request is submitted through the Personal Information tab in the Penguin Portal. Once a university exit request has been submitted, students should be aware of the following:

- The student account will be classified as inactive, which will prevent the student from registering for classes but will not delete the student’s permanent record or prevent the student from requesting transcripts of completed coursework.
- The student will be responsible for any debt owed to the university.
- The student will be responsible for any Title IV financial aid responsibilities, if applicable.
- The student will be responsible for canceling residential agreements for campus housing, if applicable.
- The student will be responsible for notifying the International Programs Office of departure, if an international student.

The university welcomes students' return to resume their education activities. A student's account will only be switched to active after a completed readmission application or former transfer application is processed. Students who wish to return after filing a university exit request should contact the Penguin Service Center to identify which application process to follow.

CONTACT FOR QUESTIONS/CONCERNS

Office: Penguin Service Center
Location: Meshel Hall
Website: https://ysu.edu/penguin-service-center and https://ysu.edu/registars-office

Admission

Undergraduate admission is handled by the Office of Admissions, located in Sweeney Welcome Center at the corner of University Plaza and Bryson Street. You may contact the Admissions Office in any of the following ways:

Phone: Toll free (877) GO-TO-YSU | (877) 468-6978 | (330) 941-2000
TDD: (330) 941-1564
Fax: (330) 941-3674
E-Mail: enroll@ysu.edu
YSU Web Site
Admissions Web Site

The Office of Admissions is open on weekdays and selected Saturdays. Please call the numbers above or visit the website for times. Campus tours are available Monday through Friday and on selected Saturdays. Tours can be scheduled by calling the Admissions Office (https://cms.ysu.edu/
administrative-offices/admissions/undergraduate-campus-visits/ or by scheduling on-line.

Tours are best scheduled a week or more in advance, but you are welcome to visit the YSU campus and stop in the office any time without an appointment. If you schedule ahead, we can arrange free parking; otherwise, visitors can park in the F-1 (University Plaza) lot across from the Sweeney Welcome Center for a nominal fee that covers parking for a full day.

Admission to the University does not guarantee admission to every program. Some programs within the University have separate admission standards that must be met before a student may enroll in that particular program. Developmental courses are available to assist in satisfying scholastic deficiencies. Those students who lack high school subjects required by the various colleges within the University may be admitted with the understanding that these courses will be completed as soon as possible and no later than the end of the college sophomore year.

Academically qualified 7-12th grade students may apply and enroll in courses prior to high school graduation through the College Credit Plus (CCP) program. For more information, visit the CCP website (https://ysu.edu/ocat/college-credit-plus/) or click on Special Academic Programs (http://catalog.ysu.edu/undergraduate/general-information/special-academic-programs/) and scroll down to Early Enrollment Opportunities.

**Admission With Conditions**

Students may be admitted to YSU with conditions under certain circumstances. Please see Conditional Admission for more information.

**State Residency Status**

Place of residence for admission and tuition purposes will be determined at the time of admission or readmission by the Office of Admissions on the basis of the residency rules stated in the Ohio Revised Code (http://codes.ohio.gov/oac/3333-1-10/) and from the information supplied on the "Application for Admission" or the "Undergraduate Application for Readmission" form.

If at any time you have questions about your appropriate classification, you should immediately bring it to the attention of the Office of Admissions for review. Students requesting Ohio residency are required to complete a State of Residency Verification form, available by request from the Office of Admissions, and provide additional supporting documentation. A change to resident status cannot be made retroactive if supporting documentation is received after the first day of the requested semester.

**Residency Status Appeal**

After the Office of Admissions makes its determination, a decision will be sent in writing to the student. If a student wishes to appeal the decision, she or he can submit an appeal form to the Residence Classification Board. Such reviews occur within two weeks of the request, if possible. The Residence Classification Board's appellate decision is final.

Please see Ohio Residency (p. 31) of this Undergraduate Catalog for the complete text of the Ohio Department of Higher Education residency criteria.

**Application Fee**

A non-refundable application fee of $45 is required unless the applicant is a former YSU student, participated in the YSU College Credit Plus (CCP) program or those who have served or are currently serving in the Armed Forces of the United States.

**High School Preparation**

Students desiring to pursue a baccalaureate degree should have completed the following college preparatory units:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Science</td>
<td>3</td>
</tr>
<tr>
<td>Social Studies</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>2</td>
</tr>
<tr>
<td>Arts</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

1 Two units in one language

It is recommended that coursework include:

- English composition
- Algebra 1, Algebra 2, and Geometry
- Laboratory science
- United States history and government

In addition, the Bachelor of Engineering (BE) degree program suggests a unit of mechanical drawing, a half-unit of trigonometry, and in the sciences, one unit of chemistry and one unit of physics specifically. Students interested in programs such as computer information systems, physical sciences, and mathematics should also take a fourth year of mathematics. For the Bachelor of Music (BM) degree program, the applicants are expected to have proficiency in one or more branches of applied music. See the Dana School of Music (p. 302) section.

Students wishing to pursue an associate degree should have completed the following college preparatory units:

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>4</td>
</tr>
<tr>
<td>Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>Science</td>
<td>2</td>
</tr>
<tr>
<td>Social Studies</td>
<td>2</td>
</tr>
<tr>
<td>Other Subjects</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total Units</strong></td>
<td>16</td>
</tr>
</tbody>
</table>

Students admitted to the University may have their high school records evaluated by the college in which they are enrolled. Specific coursework, in addition to what is listed above, may be required in order to be accepted into a specific program or major. Since such coursework may vary depending on the college and degree requirements, students should check with advisors as to the academic expectations that need to be met.

**Application Deadlines**

We encourage all students to apply at least two months prior to the application closing dates listed below. Review of applications received after these dates cannot be guaranteed.

**Fall Semester 2021**

**Freshman**

Application Deadline: Aug. 1
Credentials Deadline: Aug. 1

**Former Transfer and Transfer**

Application Deadline: Aug. 1
Credentials Deadline: Aug. 15

**Former Transient and Transient**

Application Deadline: Aug. 1
Credentials Deadline: Aug. 15
Beginning Dates for Each Semester/
Part of Term
Full-Term, First 8-Week Term, AOP First 7-Week Term: Monday, Aug. 30, 2021
Second 8-Week Term, AOP Second 7-Week Term: Monday, Oct. 25, 2021

Spring Semester 2022
Freshman
Application Deadline: Dec. 1
Credentials Deadline: Dec. 1
Former Transfer and Transfer
Application Deadline Summer I: Apr. 15
Credentials Deadline Summer I: May 15
Application Deadline Summer II: May 15
Credentials Deadline Summer II: June 1
Former Transient and Transient
Application Deadline Summer I: Apr. 15
Credentials Deadline Summer I: May 15
Application Deadline Summer II: May 15
Credentials Deadline Summer II: June 1
Beginning Dates for Each Semester/
Part of Term
Full-Term, First 8-Week Term, AOP First 7-Week Term: Monday, Jan. 10, 2022
Second 8-Week Term, AOP Second 7-Week Term: Monday, Mar. 14, 2022

Summer Semester 2022
Freshman
Application Deadline: Apr. 15
Credentials Deadline: Apr. 15
Former Transfer and Transfer
Application Deadline Summer I: Apr. 15
Credentials Deadline Summer I: May 15
Application Deadline Summer II: May 15
Credentials Deadline Summer II: June 1
Former Transient and Transient
Application Deadline Summer I: Apr. 15
Credentials Deadline Summer I: May 15
Application Deadline Summer II: May 15
Credentials Deadline Summer II: June 1
Beginning Dates for Each Semester/
Part of Term
Full-Term, First 7-Week Term, AOP 7-Week Term: Monday, May 16, 2022
Second 7-Week Term, AOP 7-Week Term: Tuesday, July 5, 2022

New Freshman Applicants
Application Requirements
Applicants must have graduated from high school or have successfully completed the General Education Development (GED) test to be considered for admission. Freshman applicants applying for admission to Youngstown State University must submit a high school transcript and American College Test (ACT) or Scholastic Assessment Test (SAT) scores. Students are excused from this test score requirement only if they have been graduated from high school for two or more years.

Applicants must have a cumulative high school grade point average of 2.00 (on a 4.00 scale) or higher, a core grade point average* of 2.00 (on a 4.00 scale) or higher and have an ACT composite score of 17 or higher, or a combined SAT score of 920 or higher from the evidence-base writing and reading test, and the math test to be admitted unconditionally. (*Core GPA is calculated based on grades earned in the following courses - English, mathematics, science, social science and foreign language, if applicable, from 9th through 12th grade.)

A test-optional admissions policy was implemented for Fall 2020 through Spring 2023 semester. For more information regarding the test-optional admissions policy, please visit the Admissions (https://ysu.edu/admissions/) web site.

For more information, visit the Ohio Department of Higher Education Career-Technical Credit Transfer (CT) (https://www.ohiohighered.org/transfer/ct2/how-to-access-ct2-credit/) Verification of Course/Program Completion Form webpage.

Home-schooled applicants must meet the following criteria:

1. Applicants are required to submit results from the ACT or SAT. Those applicants who have been out of school for two or more years are exempt from this requirement.
2. An official transcript showing documentation of coursework completed of grades 9-12 and indicating date of completion of studies or graduation must be sent to Admissions.
3. A copy of academic assessment (i.e. Iowa Basic Skills Test, California Achievement Test, etc.) reports submitted to the appropriate superintendent of school pursuant to Section 3301-34-04 of the Ohio Administrative Code must be received by Admissions.
4. A copy of the Superintendent’s Exemption Notice showing the student is excused to receive home schooling.
5. Home-schooled students from states other than Ohio must submit the appropriate documentation required for allowing home-schooling in their state, along with above criteria #1, and #2.

Athletics Participation
Students planning to participate in intercollegiate athletics in their first year at YSU must take either the SAT or the ACT prior to enrolling in college. Please call the Office of Intercollegiate Athletics at (330) 941-2282 for more information about eligibility for athletics participation.

English Requirement
YSU requires proof that you have sufficient knowledge of the English language to follow your program of study. If your native language is not English, please see International Student Applicants (https://cms.ysu.edu/administrative-offices/international-programs-office/english-proficiency-requirements/).

Articulated Credit
In the presence of a formal bi-lateral agreement between Youngstown State University and a particular career center or high school, students may earn college credit for specified technical courses they successfully completed in high school. Youngstown State University has many program-specific articulation agreements with career and technical centers and high schools in northeast Ohio. Students in those approved articulated programs of study receive instructions from their career and technical center or high school about how to have earned credits posted to their YSU transcripts after they enroll at YSU and meet college readiness criteria. Students who complete career-technical programs of study may also receive specified articulated college credit. Students have 18 months from high school graduation to apply for the credit. For information about College Tech Prep (https://ysu.edu/college-tech-prep-special-projects/) at YSU, visit their website.

High School Transcripts
Applicants must arrange to have their high schools send to the Office of Admissions a record of all work completed. Partial transcripts will be given consideration for early decisions. If the applicant’s record clearly indicates
satisfactory completion, notification of conditional acceptance will be made before high school graduation. Final high school transcripts showing a graduation date must be received prior to the first day of the semester in which the student is enrolled.

**Conditional Admission**

In certain situations, students with a high school GPA and/or ACT/SAT scores that do not meet the requirements for admission to YSU may be offered conditional admission.

Conditionally admitted status is not to be applied to students in the BCHHS’s Emergency Medical Services Certificate and Police Academy programs. Students accepted in the Police Academy are not required to take the placement test.

Students entering Distance Learning Programs will not be considered for conditional admission status.

If a Youngstown Early College (VEC) student has earned a GPA of 2.00 or above and has passed all required developmental courses, the student’s ACT or SAT test score will not be considered in establishing the student’s conditional admission status.

**Strong Start**

Incoming first-time students with a cumulative high school grade point average and core grade point average of a 2.00 (out of 4.00) or higher but have a composite ACT below 17 (or SAT evidence based writing and reading and math composite below 920), will be reviewed for possible admission to YSU through the Strong Start Program.

Students offered admission to YSU through the Strong Start Program:

- may only begin in the fall semester.
- are required to attend new student orientation; failure to do so will defer admittance to a subsequent fall semester.
- will be classified as an Exploring Undecided major during their first year, at the end of which they may declare a major.
- Must earn a C or better in their Strong Start Success Seminar
- Must achieve good academic standing (a GPA of 2.00 or above) at the end of their first semester. Students who do not earn at last a 2.0 shall be dismissed from the university.

**Transfer Students**

Transfer students with a transfer GPA below 2.00 (out of 4.00), are not eligible for regular admission, but may be admitted with conditions after review by the Admissions Committee.

Conditionally admitted transfer students must meet the following requirements:

1. Conditionally admitted transfer students shall not be admitted during the summer session. Students who place into conditional admission status based on placement testing in the summer term will have their start date deferred to the fall semester.
2. Conditionally admitted transfer students are required to attend new student orientation; failure to do so will defer admittance to a subsequent semester. Transfer students may meet this requirement by attending a regular or transfer orientation or by completing the online orientation module for transfer students.
3. Conditionally admitted transfer students shall be classified as having an undetermined major (BCLASSE, BCHHS), a pre-major (STEM, CCCA) or an undeclared Business major (WCBA) designation, a status that shall remain until the student satisfies all requirements to exit the conditional admission classification.
4. During their first semester, conditionally admitted transfer students must fulfill a contract with the Resch Academic Success Center, which includes meeting weekly with their academic coach and two times during the term with their academic advisor.
5. Conditionally admitted transfer students cannot register for more than 14 semester hours of courses in a single semester.
6. Students placing into RSS 1510A (https://catalog.ysu.edu/search/?P=RSS%201510A) Advanced College Success Skills, ENGL 1541 Fundamentals of College Writing or ENGL 1549 Writing 1 with Support must take these courses in their first semester. Students may not withdraw from these courses unless they make a complete withdrawal from the university.
7. Conditionally admitted transfer students are restricted to an approved list of courses (see course listing below).
8. All conditionally admitted transfer students are to be advised by their college’s professional advisors and not by faculty or departmental advisors.
9. Conditionally admitted transfer students must receive approval of their course schedule by a college academic advisor and may not make further changes without approval of the advisor.
10. Failure to fulfill the first semester guidelines and achieve good academic standing (a GPA of 2.00 or above) shall result in the conditionally admitted transfer student being dismissed from the university. The student may not be admitted to any other YSU college until the dismissal period has expired.

The restrictions imposed on coursework and semester hours will be removed when the student has done the following:

1. Successfully completed all developmental courses into which the student has tested.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1541</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>RSS 1510A</td>
<td>Advanced College Success Skills</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Successfully completed six semester hours of non-developmental courses.
3. Achieved good academic standing (a GPA of 2.00 or above). See the Undergraduate Catalog (https://catalog.ysu.edu/undergraduate/) for more information on academic standing.
4. Fulfilled the conditional admission contract.

Students fulfilling these requirements may file a petition with a college academic advisor to have the restrictions and their conditionally admitted status removed.

**Students without an ACT/SAT score or HS GPA**

If a student has not taken the ACT or SAT, or does not have a high school GPA, the student is not eligible for regular admission, but may be admitted with conditions until a placement test is taken. A student who earns a score of less than 232 on the reading placement test will remain conditionally admitted. If a student places into ENGL 1541, the student will also remain conditionally admitted. If a student scores 232 or above and tests out of ENGL 1541, the conditionally admitted status is removed.

Students with an ACT or SAT score cannot test out of conditional status. Students fulfilling these requirements may file a petition with a college academic advisor to have the restrictions and their conditionally admitted status removed.

**Approved Courses for Conditionally Admitted Students**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFST 2600</td>
<td>Introduction to Africana Studies 1 1</td>
<td>3</td>
</tr>
<tr>
<td>AFST 2601</td>
<td>Introduction to Africana Studies 2 1</td>
<td>3</td>
</tr>
</tbody>
</table>
COUN 1587  Introduction to Health and Wellness in Contemporary Society  3
COUN 1589  Success in Career and Life Planning  3
CSIS 1500  Computer Literacy  3
ECON 1503  Rich and Poor: Diversity and Disparity in the United States Workplace  1
ENGL 1550  Writing 1  3
ENGL 1541  Introduction to College Writing  2
ENGL 1549  Writing 1 with Support  4
ENGL 1551  Writing 2  3
ENST 1500L  Introduction to Environmental Science  1
ENST 1500  Environmental Geology  4
HIST 1501  American Dreams: Introduction to United States History  3
KSS 1500  Physical Activity Core Concepts  1
HPES 1500 and any two of the following activity courses counts as 3 s.h. for the SPS Domain of the GER:
KSS 1502  Volleyball  3
KSS 1507  Volleyball  2
KSS 1510  Archery  3
KSS 1511  Badminton  3
KSS 1512  Bowling  3
KSS 1513  Bowling  2
KSS 1514  Fencing  1
KSS 1515  Fencing  2
KSS 1519  Racquetball  3
KSS 1520  Golf  1
KSS 1521  Golf  2
KSS 1522  Tennis  1
KSS 1523  Tennis  2
KSS 1524  Physical Fitness and Exercise Program  3
KSS 1526  Marksmanship  3
KSS 1528  Advanced Physical Fitness and Exercise Programs  3
KSS 1529  Recreational Games  3
KSS 1530  Learn to Swim  3
KSS 1531  Aquatics  2
KSS 1537  Aquatic Exercise  3
KSS 1544  Step Aerobics  3
KSS 1545  Fold and Square Dance  3
KSS 1548  Aerobic Dance  3
KSS 1554  Fitness Walking  3
KSS 1555  Jogging  3
KSS 1556  Racquetball  2
KSS 1557  Weight Training  3
KSS 1564  Bicycling  3
KSS 1565  Self Defense  3
KSS 1566  Judo  3
KSS 1568  Taekwondo/Karate  3
KSS 2697  Camping  3
MATH 1513  Algebra and Transcendental Function  3
MATH 1500  Mathematics Preparation for Algebra Placement  2
MATH 1510  College Algebra  4
MATH 1510C  College Algebra with Co-requisite Support  6
MATH 2623C  Quantitative Reasoning with Co-Requisite Support  5
STAT 2625  Statistical Literacy and Critical Reasoning  4

MATH 2623  Quantitative Reasoning  5
MATH 1520  Introduction to Leadership  1
MATH 1530L  Basic Course Leadership Laboratories  1
MUHL 2621  Music Literature and Appreciation  3
MUHL 2616  Survey of Jazz  3
POL 1550  Introduction to Political Science  3
RCC 1510A  Advanced College Success Skills  2
RCC 1510C  STEM Advanced College Success Skills  2
SOC 1500  Introduction to Sociology  3
THTR 1560  Introduction to Theatre  3
THTR 1590  History of Motion Pictures  3
TOM 1595  Media Literacy and Culture  3

Any college-based first year orientation course

A limited number of additional college-based courses are available with consultation with, and the expressed approval of, the student’s college advisor.

1 General Education course
2 Developmental course
3 Transfer students only
4 Second semester or later only
5 Only if tested or placed into

Career-Technical Credit Transfer (CT) / CTAG

Secondary or adult students who successfully complete specified technical programs are eligible to have technical credit transfer to public colleges and universities. This transfer of credit is described in Career-Technical Assurance Guides (CTAG). Students are guaranteed the transfer of applicable credits among Ohio’s public colleges and universities and equitable treatment in the application of credits to admissions and degree requirements. (CT)² helps more high school and adult career-technical students to go to college and enter with college credit; technical credit saves students money and time; and Ohio business and industry will benefit from more employees with higher education and advanced skills.

The language in section 3333.162 (http://regents.ohio.gov/careertechtransfer/archives/documents/HB66Language.pdf) of the Ohio Revised Code requires the Ohio Department of Higher Education and the Ohio Department of Education to develop policies and procedures ensuring that students at an adult career-technical education institution or secondary career-technical education institution can transfer agreed upon technical courses completed there (that adhere to recognized industry standards) to any public institution of higher education “without unnecessary duplication or institutional barriers.”

To access credit, students will need to request a CTAG Verification Form be sent by the career-institution from which they attended/graduated, to the YSU Office of College Tech Prep and Special Projects. Students have three years from high school graduation to apply for credit. For more information on how to access (CT)² credit visit the Ohio Department of Higher Education Career-Technical Credit Transfer (CT) (https://www.ohiohighered.org/transfer/ct2/how-to-access-ct2-credit/)² Verification of Course/Program Completion Form webpage.

To access (CT)² credit visit the Ohio Department of Higher Education
International Undergraduate Admission

For admission and tuition purposes, someone is considered an international applicant if they are NOT a U.S. citizen or permanent resident, or do not hold refugee or political asylum status. For those who are U.S. citizens, permanent residents, refugees or political asylum holders, should apply for domestic student application.

International Student Applicants

Youngstown State University welcomes applications from qualified students around the world. The University’s International Programs Office (IPO) provides a wide range of support services for international students, described in detail in other sections of this Undergraduate Catalog.

For issuance of an immigration document, F-1 and J-1 students must demonstrate the financial ability to pay for at least one year of academic and living expenses.

General Admission Statement

The admission information contained in this section reflects standard admissions requirements. Meeting these requirements does not guarantee admission to the university or to specific programs.

Academic Credentials

Academic credentials include high school and college transcripts, test scores, GED scores, and/or any other records required for admission or granting credit. Only properly certified and signed credentials issued to YSU and received directly from the issuing institution will be accepted. All must be in a sealed envelope(s) from the issuing institution. Admission may be offered in certain cases to applicants who submit certified copies of credentials. Students admitted with copies will be required to produce all original documents by the end of their first term of enrollment.

International Application Deadlines

<table>
<thead>
<tr>
<th>Semester</th>
<th>Freshman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>June 1</td>
</tr>
<tr>
<td>Spring</td>
<td>November 1</td>
</tr>
</tbody>
</table>

International Freshman and Overseas Transfer Students

Applicants from overseas must submit the following information well in advance of the desired date of admission. Admission is possible during all terms provided the deadline for application is met. Students must attend the mandatory new international student orientation.

- A completed application form, a $45 non-refundable application fee and a list of all educational experiences including studies undertaken in the U.S. Applicants seeking F-1 or J-1 (student) non-immigrant status must submit certification of sufficient financial resources available for education and living expenses while attending the University.
- Official credentials and transcripts from all secondary schools, colleges, and universities that the student has attended, including subjects studied, grades, and a key to the grading system. If credentials are not in English, official translations may be required. Transfer credits may be granted for courses taken at U.S. and overseas accredited institutions only if an official syllabus or course description is provided; evaluation of transfer credit will be made prior to the start of classes. Evidence of academic and disciplinary good standing at the last prior institution with a minimum grade point average of 2.00 (on a 4.00 scale). Some YSU programs may have higher requirements.
- Transfer applicants must submit all college official transcripts prior to the I-20 issuance.
- English Language Proficiency - Applicants whose education is from an English-medium secondary or post-secondary institution in certain countries are exempt from the standardized English proficiency testing requirement. See Information on International English Proficiency (https://ysu.edu/international-programs-office/apply-now/quick-menu/more-information/english-proficiency-requirements/#EXP). International students who graduate from an English medium secondary school in the United States are required to submit either the ACT or SAT in lieu of TOEFL, IELTS, or PTE Academic.

All other applicants for whom English is a second language must present evidence of proficiency in the English language with official test scores on one of the following:

- Test of English as a Foreign Language (TOEFL) directly from the Educational Testing Service (ETS) with a minimum score of:
  - 67 or higher on the Internet Based TOEFL test (iBT)
  - a minimum score of 6.0 composite (with at least 5.0 on each subscale) on the International English Language Testing System (IELTS)
  - a minimum score of 920 on the SAT
- American College Testing (ACT) [17]
- PTE Academic (Pearson Test of English) [58]
- Duolingo English Test (DET) [95]
- Successful completion of 24 semester hours of college-level coursework from an accredited English-medium college in the United States or another country where English is an official language.

The English Language Institute (ELI)

The English Language Institute (ELI) at Youngstown State University offers an intensive English program with non-credited classes for English language learners. In addition, the ELI provides an orientation to college life and American culture. Classes are available to college-bound students, permanent residents, immigrants, and special interest groups. Upon graduation from the program, students will have satisfied the English proficiency requirement necessary for admission to an undergraduate or graduate University program.

Please note: ELI courses cannot be used as credit toward a degree. Applicants should be aware that deficiencies in English may increase the amount of time and money required for completing a regular program of study.

Types of Admission for International Students

Regular Admission

Regular admission will be granted if the student’s records meet YSU’s academic requirements for admission, satisfy the high school curriculum requirements, and show that the applicant has adequate preparation for study in the proposed major.

Conditional Admission

Students meeting all the above admissions requirements except the specified level of English proficiency may be admitted conditionally. This admission is conditional upon successful completion of English language study at YSU’s English Language Institute (ELI). Conditionally admitted students are not permitted to submit TOEFL or IELTS scores as evidence of English proficiency.

Admission with Transfer Credit

Credits from accredited or officially recognized institutions in other countries will be evaluated upon presentation of official transcripts, official translations and complete course descriptions and/or syllabi. Students holding undergraduate degrees equivalent to the bachelor’s degree may be admitted to the University for post-baccalaureate undergraduate study upon
recommendation of the Dean of the proposed college, IPO's Associate Provost, and the Chair of the relevant department.

international pathway program admission
Applicants with a qualifying English Proficiency score may be admitted to the International Pathway Program on a 1 or 2 semester pathway. Applicants who are eligible for admission to the 1 semester pathway must present one of the following scores: IELTS 5.0, TOEFL 46, DET 85. Upon successful completion of the International Pathway Program, the student's admission status will be changed from Pathway to undergraduate.

International Graduate Admission
Application for admission to the University for graduate study is made directly to Graduate Admissions. (For details, consult the Graduate Catalog or the College of Graduate Studies (https://ysu.edu/international-programs-office/apply-now/quick-menu/international-graduate-admissions/) website.)

Transfer Applicants
An applicant who has graduated from high school and was enrolled in another college or university for at least one course during the fall semester following high school graduation is classified as a transfer applicant. This classification includes post-baccalaureate applicants from other institutions seeking additional undergraduate coursework.

The Ohio Department of Higher Education in 1990, following a directive of the 119th Ohio General Assembly, developed the Ohio Articulation and Transfer Policy to facilitate students' ability to transfer credits from one Ohio public college or university to another in order to avoid duplication of course requirements. A subsequent policy review and recommendations produced by the Articulation and Transfer Advisory Council in 2004, together with mandates from the 125th Ohio General Assembly in the form of Amended Substitute House Bill 95, have prompted improvements of the original policy. While all state-assisted colleges and universities are required to follow the Ohio Articulation and Transfer Policy, independent colleges and universities in Ohio may or may not participate in the transfer policy. Therefore, students interested in transferring to independent institutions are encouraged to check with the college or university of their choice regarding transfer agreements. In support of improved articulation and transfer processes, the Ohio Department of Higher Education (ODHE) has established a transfer clearinghouse to receive, annotate, and convey transcripts among state-assisted colleges and universities. This system is designed to provide standardized information and help colleges and universities reduce undesirable variability in the transfer credit evaluation process.

ODHE Ohio Transfer 36
The Department of Higher Education’s Transfer and Articulation Policy established the Ohio Transfer 36, which is a subset or entire set of a college or university’s general education curriculum in AA, AS, and baccalaureate degree programs. Students in applied associate degree programs may complete some individual general education courses within their degree program or continue beyond the degree program to complete the entire Ohio Transfer 36. The Ohio Transfer 36 contains 36-40 semester or 54-60 quarter hours of course credit in:

- English composition (minimum of 3 semester or 5 quarter hours)
- Mathematics, statistics, and formal/symbolic logic (minimum of 3 semester or 3 quarter hours)
- Arts/humanities (minimum of 6 semester or 9 quarter hours)
- Social and behavioral sciences (minimum of 6 semester or 9 quarter hours)
- Natural Science (minimum of 6 semester or 9 quarter hours)
- Oral communication and interdisciplinary areas may be included as additional options to satisfy Ohio Transfer 36 requirements

- Additional elective hours from among these areas make up the total hours for a completed Ohio Transfer 36

Courses for the Ohio Transfer 36 should be lower-division level general education courses commonly completed in the first two years of a student's course of study. Each state-assisted university, technical, and community college is required to establish and maintain an approved Ohio Transfer 36.

Ohio Transfer 36 course(s) or the full Ohio Transfer 36 completed at one college or university will automatically meet the requirements of individual general education course(s) or the full Ohio Transfer 36 at another college or university once the student is admitted. Students may be required, however, to meet additional general education requirements at the institution to which they transfer. For example, a student who completes the Ohio Transfer 36 at Institution S (sending institution) and then transfers to Institution R (receiving institution) is said to have completed the Ohio Transfer 36 portion of Institution R's general education program. Institution R, however, may have general education courses that go beyond its Ohio Transfer 36. State policy initially required that all courses in the Ohio Transfer 36 be completed to receive its benefit in transfer. However, subsequent policy revisions have extended this benefit to the completion of individual Ohio Transfer 36 courses on a course-by-course basis.

ODHE Conditions for Transfer Admission
1. Ohio residents with associate degrees from state-assisted institutions and a completed, approved Ohio Transfer 36 shall be admitted to any state institution of higher education in Ohio, provided their cumulative grade point average is at least 2.0 for all previous college-level courses. Further, these students shall have admission priority over out-of-state associate degree graduates and transfer students.
2. When students have earned associate degrees but have not completed the Ohio Transfer 36, they will be eligible for preferential consideration for admission as transfer students if they have grade point averages of at least a 2.0 for all previous college-level courses.
3. In order to encourage completion of the baccalaureate degree, students who are not enrolled in an AA or AS degree program but have earned 60 semester or 90 quarter hours or more of credit toward a baccalaureate degree with a grade point average of at least a 2.0 for all previous college-level courses will be eligible for preferential consideration for admission as transfer students.
4. Students who have not earned an AA or AS degree or who have not earned 60 semester or 90 quarter hours of credit with a grade point average of at least a 2.0 for all previous college-level courses are eligible for admission as transfer students on a competitive basis.
5. Incoming transfer students admitted to a college or university shall compete for admission to selective programs, majors, and units on an equal basis with students native to the receiving institution.

Admission to a given institution, however, does not guarantee that a transfer student will be automatically admitted to all majors, minors, or fields of concentration at the institution. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as native students. Furthermore, transfer students shall be accorded the same class standing and other privileges as native students on the basis of the number of credits earned. All residency requirements must be completed at the receiving institution.

ACCEPTANCE OF TRANSFER CREDIT
To recognize courses appropriately and provide equity in the treatment of incoming transfer students and students native to the receiving institution, transfer credit will be accepted for all successfully completed college-level courses from regionally accredited colleges and universities. Students who successfully complete AA or AS degrees with a 2.0 or better overall grade point average would also receive credit for all college-level courses they have passed. (See Ohio Articulation and Transfer Policy, Definition of Passing Grade, Appendix D on the ODHE website.) While this reflects the baseline policy requirement, individual institutions may set equitable institutional
policies that are more accepting. Pass/fail courses, credit by examination courses, experiential learning courses, and other nontraditional credit courses that meet these conditions will also be accepted and posted to the student record.

See information for Transfer Students for related documents.

**Transfer Assurance Guides**

Transfer Assurance Guides (TAGs) comprise of Ohio Transfer 36 courses and additional courses required for an academic major. A TAG is an advising tool to assist Ohio university and community and technical college students planning specific majors to make course selections that will ensure comparable, compatible, and equivalent learning experiences across the state’s higher-education system. A number of area-specific TAG pathways in the arts, humanities, business, communication, education, health, mathematics, science, engineering, engineering technologies, and the social sciences have been developed by faculty teams. TAGs empower students to make informed course selection decisions and plans for their future transfer. Advisors at the institution to which a student wishes to transfer should also be consulted during the transfer process. Students may elect to complete the full TAG or any subset of courses from the TAG. Because of specific major requirements, early identification of a student’s intended major is encouraged. TAG courses count toward the major without adding to the overall total of credits in the particular major.

Students should also check with their department about which courses have received approval from ODHE as part of the Transfer Assurance Guides program. Only those courses that have received such approval can be guaranteed credit toward a program of study. Students may also check with the ODHE TAG website.

**Transferring to YSU**

**TRANSFER CREDIT**

Transfer credit is given for all coursework taken at a regionally accredited institution, provided that the student has a cumulative grade point average equivalent to 2.0 (on a 4.0 system). Cumulative GPA includes work from all previous institutions. Earned credits transferring into YSU will apply to one of the three areas including general education, major coursework, or elective credit. Developmental/remedial courses do not apply toward any degree at YSU. YSU accepts a "D" grade on the same basis as the rules governing native students. For example, a "D" grade might not satisfy a prerequisite for which a higher grade is needed.

Courses from non-regionally accredited institution courses may be accepted on a case-by-case basis due to ODHE policy. Credit will not be blanketed posted to the student’s file, but a student may request that courses earned at such institutions be reviewed and evaluated to determine if the course can be accepted and applied to the student’s program of study. Courses may not be evaluated from certain non-regionally accredited institutions if a student applied for loan forgiveness through the U.S. Department of Education. Any courses reviewed will go through the same process as those from regionally accredited institutions, which may require the student to provide additional information on each reviewed course (e.g. course description, syllabus, etc.). All approved courses must be a minimum of 1 credit and cannot be developmental. Please refer to the full Ohio Department of Higher Education policy.

Conditions for transfer admission to the University are in line with ODHE rules and regulations (see above). Per ODHE policy, the University recognizes the associate degree as preliminary to the baccalaureate and admits advanced-standing students possessing the associate degree from a regionally accredited institution. Transfer credit is granted for all work successfully completed from the associate degree. Admission to the University does not guarantee that a transfer student will be automatically admitted to all majors, minors, or fields of concentration. Some programs within the University have separate admission standards that must be met before a student may enroll in that particular program. Please consult the appropriate college or department for information on restricted program admissions. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements, class standing, and other privileges as all other native students.

Transfer applicants who are in good standing at the last institution attended and who have a cumulative grade point average of 2.0 or higher (on a 4.0 system) for all previous college-level courses admitted in good standing. Transfer applicants with a cumulative grade point average of less than 2.0 or who are on probation, may be considered on a case by case basis. Applicants suspended or dismissed from their most recent institutions are not eligible for admission until at least one semester (excluding summer) has passed following the term in which the suspension occurred. Transfer students with multiple suspensions or dismissals may not be eligible for admission. See the reinstatement policy for YSU students in the Undergraduate Catalog.

The university is continuing the process of examining all courses from surrounding collegiate institutions. The Office of Degree Audit along with the department chairs and the coordinator of General Education work with the Office of Admissions to identify courses that equate or courses that could count toward a major or general education credit. The appropriate school or college and/or department and/or coordinator of general education in accordance with policies governing the fulfillment of degree requirements will determine distribution of any accepted course work.

**CREDENTIALS FOR TRANSFER STUDENTS**

Official transcripts may be sent directly from the issuing institution to the YSU Office of Admissions or can be delivered in person in a sealed and stamped envelope. The Ohio Department of Higher Education has established a transfer clearinghouse to receive, annotate, and convey transcripts among state-assisted colleges and universities. Official transcripts may also be sent electronically through a secured provider (e.g. Parchment, TranscriptsPlus/ Credentials Inc., National Student Clearinghouse, etc.)

**PRE-BACCAULAUREATE**

All transfer applicants are required to submit all undergraduate transcripts from regionally accredited colleges and universities attended. Official high school transcripts are also required to be submitted unless a student has earned an associate degree. All transcripts should be sent to YSU’s Office of Admissions.

**POST-BACCAULAUREATE**

Post-baccalaureate applicants are required to submit all undergraduate transcripts from regionally accredited colleges and universities attended. High school transcripts are not required unless specifically requested by YSU.

**PRIOR LEARNING ASSESSMENT CREDIT**

Prior Learning Assessment (PLA) is an option that enables students to demonstrate what they have learned outside the classroom and translate that learning into college credit. Prior Learning Assessment validates learning acquired through corporate training programs, extensive volunteer activity, military service, workplace experience, civic engagement, individual readings and studies, training sponsored by professional organizations, and training sponsored by governmental agencies. Credit is awarded for college-level learning (knowledge, skills, and competencies) that students have obtained as a result of their prior learning experiences.

Students must demonstrate their mastery of the knowledge in a subject area in order to earn college credit. Prior learning can be verified by:

- Performance on standardized tests or department challenge exams
- Creation and evaluation of a portfolio
- Demonstration of military service learning
For more information regarding PLA credit and guidelines, please see the Prior Learning Assessment website.

GENERAL EDUCATION AND THE Ohio TRANSFER 36

1. Per the articulation and Ohio Transfer 36 guidelines developed by the Ohio Department of Higher Education, any student transferring to YSU with a completed Ohio Transfer 36 from another Ohio public institution of higher learning will receive credit for all hours (36-40 semester hours; 54-60 quarter hours) contained within the Ohio Transfer 36. Furthermore, the Ohio Transfer 36 portion of YSU’s General Education Requirements will be judged to be completed.

2. Students transferring into YSU with the Ohio Transfer 36 completed at another institution will have all general education courses completed with the exception of the capstone course (3 semester hours). Students may find a list of approved capstone courses on the General Education website (p. 19).

3. For those students who have not completed the Ohio Transfer 36 at another school, ODHE has guaranteed that any approved Ohio Transfer 36 course taken at one institution must receive general education credit at the receiving institution. YSU has also determined that courses beyond the Ohio Transfer 36 list may satisfy general education requirements. The Office of Degree Audit will process equates between the transferred and YSU courses. The General Education Committee will determine which courses being transferred fit within the YSU general education model. The student will then be advised as to how many courses in each domain must be taken to satisfy the general education requirements at this university. Each student must complete a capstone course at Youngstown State University.

TRANSFER FROM A REGIONALLY ACCREDITED INSTITUTION-ARTICULATION AGREEMENTS

YSU also has a number of articulation agreements with colleges in Ohio and western Pennsylvania. Through these agreements a maximum number of credits from the associate-degree-granting institution will be applied toward a bachelor’s degree program at YSU. Associate-degree holders meeting that criterion will, in most cases, be admitted with junior standing at Youngstown State and entitled to all the rights and privileges of native junior students, including eligibility for financial aid and priority in registration. Please refer to the Degree Audit website for more information and for a current list of articulation agreements.

The University also has articulation agreements with many career and technical centers to award college credit for various courses. For a complete list of these agreements, refer to the Degree Audit website under Partnership Program Information 2 and 4 Year Agreements with other Institutions.

Articulation agreements are pending with several other institutions in the region. Applicants who have not completed an associate program are considered on the same basis as other transfer applicants.

Transferring From YSU

In order to facilitate transfer with maximum applicability of transfer credit, prospective transfer students should plan a course of study that will meet the requirements of a degree program at the receiving institution. Students should use the Ohio Transfer 36 (see below), Transfer Assurance Guides, and the Transferology system for guidance in planning the transfer process. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will articulate with the receiving institution’s major. Students are encouraged to seek further information regarding transfer from the college or university to which they plan to transfer.

YSU Ohio Transfer 36

Based on ODHE guidelines, students wishing to transfer to another state college or university can complete the Ohio Transfer 36 by taking the following general education courses:

- English 1550 Writing I, English 1551 Writing II (6 semester hours)
- Mathematics, statistics, and logic (3 semester hours)
- Oral Communications (3 semester hours)
- Natural Science (must include one laboratory science, minimum of 7 semester hours)
- Arts and Humanities (minimum of 6 semester hours)
- Social Science (minimum of 6 semester hours)
- Additional approved general education courses to meet a minimum of 36 total semester hours typically based on student’s academic interest.

It is recommended that students take a minimum of six of the hours from Natural Science, Arts and Humanities, or Social Science from courses that are cross-listed as Social and Personal Awareness. In doing so, a student can still complete YSU’s General Education Requirements in a timely manner should that student choose not to transfer.

No course may count unless it is on the 1500 or 2600 level. The student must take the minimum credits in each category and at least 36 credits overall to complete the Ohio Transfer 36. However, each course approved as part of a university’s Ohio Transfer 36 is guaranteed credit at another state institution as a general education course.

Students planning to transfer from YSU should refer to the Undergraduate Catalog (General Education Courses by Knowledge Domain) for a list of general education courses approved as part of the Ohio Transfer 36. Only those courses footnoted will receive general education credit. This information will also be available on the General Education website, which is linked to the YSU homepage.

Credit from Professional Schools

Students at YSU wishing to enter professional schools with the option of completing their baccalaureate degree in absentia may do so with the completion of at least 94 semester hours of coursework, which must include the following:

- All general University requirements
- Completion of major
- Completion of minor (if required)
- 54 s.h. of upper-division coursework (3700-4800-Level)

The University will accept the completion of not more than 30 semester hours from any professional school granting any of the degrees listed below and approved by the accrediting agency of that profession, provided that the student has been accepted for further study at the professional school. The student may thus secure the baccalaureate degree after three to three-and-a-half years in the University followed by approximately a year in the professional school. The relevant professional degrees are:

- Doctor of Dental Surgery or equivalent
- Doctor of Medicine
- Doctor of Osteopathy
- Doctor of Podiatry
- Doctor of Veterinary Medicine
- Doctor of Jurisprudence or equivalent
- Doctor of Ministry or equivalent
- Bachelor of Divinity or equivalent

Advanced Placement (AP)
The state of Ohio, working through the University System of Ohio, has initiated policies to facilitate the ease of transition from high school to college as well as between and among Ohio’s public colleges and universities.

Beginning in the fall term 2009:

1. Students obtaining an Advanced Placement (AP) exam score of 3 or above will be awarded the aligned course(s) and credits for the AP exam area(s) successfully completed.

2. General education courses and credits received will be applied towards graduation and will satisfy a general education requirement if the course(s) to which the AP area is equivalent fulfill a requirement.

3. If an equivalent course is not available for the AP exam area completed, elective or area credit will be awarded in the appropriate academic discipline and will be applied towards graduation where such elective credit options exist within the academic major.

4. Additional courses or credits may be available when a score of 4 or 5 is obtained. Award of credit for higher score values varies depending on the institution and academic discipline.

5. In academic disciplines containing highly dependent sequences (mathematics, sciences, etc.), students are strongly advised to confer with the college/university advising staff to ensure they have the appropriate foundation to be successful in advanced coursework within the sequence.

**CLEP (College Level Placement Test), Departmental Credit By Exam**

1. Students may not take a CLEP test, department challenge exam, or other credit by exam opportunity for any course in which they are currently enrolled or have been previously enrolled and earned an evaluative grade.

2. Students who have already received credit for coursework for a subject in which the courses are sequential may not receive academic credit by means of CLEP, department challenge exam, or other credit by exam opportunity for an earlier prerequisite course.

3. Students pursuing a baccalaureate degree may earn up to a maximum total of 30 semester hours via credit by exam; an associate degree may earn a maximum total of 15 semester hours via credit by exam.

**Appeals**

A student who disagrees with the award of transfer credit by the receiving institution has the right to appeal the decision and should contact the Office of Degree Audit to begin the process. The institution will make the student aware of the entire appeal process at the time of contact. You can also visit the Appeal website for an explanation of the process.

**Admission with Non-Traditional Credit**

You may be admitted to Youngstown State University with credits from non-traditional educational sources.

**Prior Learning Assessment Credit**

Prior Learning Assessment (PLA) is an option that enables students to demonstrate what they have learned outside the classroom and translate that learning into college credit. Prior Learning Assessment validates learning acquired through corporate training programs, extensive volunteer activity, military service, workplace experience, civic engagement, individual readings and studies, training sponsored by professional organizations, and training sponsored by governmental agencies. Credit is awarded for college-level learning (knowledge, skills, and competencies) that students have obtained as a result of their prior learning experiences.

Students must demonstrate their mastery of the knowledge in a subject area in order to earn college credit. Prior learning can be verified by one or more of the following:

- performance on standardized tests or department challenge exams
- creation and evaluation of a portfolio
- demonstration of military service learning
- obtaining of professional certifications

Some certifications awarded by accrediting organizations are given automatic academic credit at YSU once proper paperwork is completed and proof of certification is presented. Please visit the Prior Learning Assessment Crosswalks webpage and look at crosswalks. If you have a certificate that is not awarded academic credit, please contact Dr. Tammy A. King, PLA Coordinator, at taking@ysu.edu for assistance with the required paperwork for obtaining the credit.

YSU has partnered with FastPathOhio (http://fastpathohio.com/) to assist students with the development of portfolios. Before completing a portfolio for credit, please contact the PLA Coordinator.

For more information regarding PLA credit and guidelines, please see the Prior Learning Assessment (https://ysu.edu/prior-learning-assessment/) website.

**Veterans**

The US Military is considered one of the finest training institutions in the world. Every Veteran or currently serving military student is entitled to a review of his or her military training to determine if college credit can be awarded.

Military Veterans, current service members (Active, Reserve and Guard) and certain qualified dependents often arrive at the university with various Department of Defense (DOD), Veterans Administration (VA) or State of Ohio Education benefits. The Office of Veterans Affairs located at the Carl A. Nunziato Veterans Resource Center, 633 Wick Avenue, Youngstown State University helps these military connected students make sense of their education benefits. Youngstown State University will not engage in unethical recruitment practices of this protected student population. Unacceptable practices include offering inducements to any individual for the purpose of securing enrollments of Service members, providing commission, bonus or other incentive payment based directly or indirectly on securing Service member enrollments, or engaging in high-pressure recruitment tactics.

Student Veterans at Youngstown State University are afforded certain benefits in recognition for their service to country. The benefits include but are not limited to:

- waiver of application and orientation fees
- advocacy services
- disability services
- weekly communications relative to veterans
- student veterans group
- military friendly deployment practices
- special recognition at graduation
- access to the Veterans Resource Center
- evaluation of military transcripts

Courses taken through the United States Armed Forces Institute (USAFI) or the Defense Activity for Non-Traditional Education Support (DANTES) as well as certain formal service school courses will be considered for transfer toward the student’s degree program. USAFI or DANTES courses must be evidenced by an official transcript, and service school courses through the (JST) Joint Service Transcript (Army, Navy, Marines, Coast Guard) or the (CCAF) Community College of the Air Force Transcript.

An individual who has served or is serving in the United States Armed Forces and has completed Basic Military Training will receive appropriate credit.
for that training. Credit may also be granted for "military job skill training" obtained while a member of the U.S. Armed Forces. A copy of the applicant's DD Form 214 and JST or CCAF must be supplied to the Office of Veterans Affairs in order to validate and award such credit. Be advised that credit awarded for various military education may not relate, or be applicable to the student's chosen field of study and as a result may not fulfill specific degree requirements. Every effort will be made to maximize the amount of college credit awarded for military training.

In addition, current military members (Active, Guard and Reserve), when called away to official duty during the semester, will be given special consideration as it applies to late withdrawals, and re-admission to programs in which they satisfactorily participate.

In accordance with the Veterans Benefits and Transition Act of 2018, Youngstown State University will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veterans Affairs. Note: proper documentation of eligibility for these VA benefits must be on file at the YSU Office of Veterans Affairs.

Questions should be addressed to the Office of Veterans Affairs, (330) 941-2503. See the Office of Veterans Affairs (http://cms.ysu.edu/administrative-offices/veterans-affairs/office-veteran-affairs/) website for more information.

Credit By Examination
Credit by examination is available to students who satisfactorily complete the appropriate subject examination.

The three available credit-by-exam opportunities include:

• Advanced Placement Program (APP) - available only through student's high school.
• College Level Examination Program (CLEP)
• Departmental Examinations - Call the specific department for a list of available exams and registration information.

Guidelines for students taking credit by examination:

• Students may not take a CLEP test, department challenge exam, or other credit by exam opportunity for any course in which they are currently enrolled or have previously been enrolled and earned an evaluative grade.
• Students who have already received credit for coursework for a subject in which the courses are sequential may not receive academic credit by means of CLEP department challenge exam, or other credit by exam opportunity for an earlier prerequisite course.
• Students pursuing a baccalaureate degree may use a maximum total of 30 semester hours of credit by exam applied to their degree; an associate degree may have a maximum total of 15 semester hours of credit by exam applied to their degree.

Online Credit
The University will accept online work taken in connection with a regionally accredited institution under the same circumstances as provided in the section titled "Transfer Credit."

Transient Applicants
A student seeking a degree at another institution may ordinarily take one semester of course work at YSU as a transient student. The student must apply for admission to the University and provide a statement from the registrar from the student’s current institution that she or he is in good standing. Only students in good academic standing and eligible to return to their institution will be permitted to enroll as transients. Students who wish to remain as a transient student for a second consecutive semester should contact Admissions.

Former Student Applicants
All students who have interrupted their attendance at Youngstown State University for three consecutive semesters must reapply. Information regarding readmission can be found at undergraduate readmission (https://cms.ysu.edu/administrative-offices/registrar/readmission-former-students/). Students who have attended any accredited college or university since last attending YSU must contact the Office of Admissions, submit a Former Transfer application and provide all official documentation described under, "Credentials for Transfer Students."

Non-Matriculated Admission
The option of non-matriculated admission provides an opportunity for adults out of high school two or more years to enroll in undergraduate courses without completion of the regular admission process. High school or previous collegiate transcripts are not required until the non-matriculated student completes 18 credit hours or decides to seek admission to a degree program. Coursework taken in the 18 semester hours as a non-matriculated student can be applied to a degree program at Youngstown State University. Non-matriculated students are able to register only after current students have registered.

Applications for non-matriculated admission can be obtained through the Office of Admissions.

Suspended Students
A former student who was academically suspended must apply for reinstatement to the dean of the college he or she wishes to attend. Reinstatement procedures may vary with the college. For details, consult either the Office of Records or the appropriate dean's office.

See Academic Eligibility (https://catalog.ysu.edu/undergraduate/general-information/academic-policies-procedures/grade-requirements/) under Academic Policies, Rights and Responsibilities for rules regarding suspension and reinstatement.

Early Enrollment Opportunities
Youngstown State University offers programs that provide additional academic opportunities to 7th - 12th-grade students who have demonstrated college readiness. The programs allow students to experience college-level course work, supplement their high school curriculum, enjoy special interests, and accumulate college credit. Course work may be applied toward a program at Youngstown State University or may be transferable. Students who plan to continue at YSU after graduation from high school must reapply to YSU and provide a final high school transcript to the Office of Admissions. These programs include:

COLLEGE CREDIT PLUS
The YSU College Credit Plus program (CCP) offers credit-bearing college courses to 7th - 12th-grade students. Students earn college credit on an official YSU transcript, transferable to any state-funded college or university in Ohio and some private and out-of-state schools. CCP students who plan to continue at YSU after graduating high school must reapply to YSU and provide their final high school transcript. In addition:

• Students can enroll in any class for which they are qualified. Classes are offered on campus, online, or at the high school (course offerings vary). See the College Credit Plus (https://ysu.edu/ocat/college-credit-plus/) website for eligibility and information about course offerings in each school district.
• There are two payment options in the CCP program. Students can either be self-pay (Option A) or state-funded (Option B). See the Student Cost: Option A vs. Option B (https://ysu.edu/ocat/college-credit-plus/student-cost-option-vs-option-b/) webpage for more information.

COLLEGE TECH PREP
Ohio College Tech Prep blends high-level academics with advanced career technical education. Focused on student success and workforce development, this educational initiative requires collaboration among secondary and post-secondary partners to support students through a smoothly structured transition from high school to college to careers.

Students who successfully complete the high school portion of College Tech Prep and continue their career pathway at YSU may earn articulated college credit or Career-Technical Credit (also known as CTAGs).

College Tech Prep is coordinated in Ohio through six regional centers. Ohio College Tech Prep is jointly managed by the Ohio Department of Higher Education and the Ohio Department of Education’s Office of Career-Technical Education. For more information, contact the Office of College Access and Transition or visit the College Tech Prep (http://cms.ysu.edu/administrative-offices/associate-degree-programs/college-tech-prep/) website.

YOUNGSTOWN RAYEN EARLY COLLEGE (YREC)
YREC, the first school of its kind at a public university in Ohio, helps Youngstown city school district students succeed in high school and make a successful transition to higher education. From YREC’s home base in the Rayen Building, just south of the YSU campus, students take a combination of high school and university classes, graduating from high school with up to 64 hours of college credit. Youngstown Rayen Early College was developed with the assistance of the KnowledgeWorks Foundation and the Bill and Melinda Gates Foundation. For more information, contact the Office of College Access and Transition (ocat@ysu.edu).

College-Prep Programs
Academic achievers
Academic Achievers serves 9th - 12th-grade students at Warren G. Harding High School, Warren, Ohio.

Since 2002, Academic Achievers prepares students for college through academic, cultural, and social experiences throughout the school year and over the summer. The program assists students with their studies, promoting service to the community, and preparing them to have a successful high school and college career.

Academic Achievers is funded by The Roberta Marstellar Hannay Charitable Foundation. For more information, visit the Academic Achievers (https://ysu.edu/upward-bound/academic-achievers/) website.

upward bound
Upward Bound serves 9th - 12th-grade students in Youngstown City Schools, Youngstown, Ohio.

Located on the campus of YSU since 1999, Upward Bound provides fundamental support to Youngstown City high school students in their preparation for college entrance. The program provides opportunities for students to succeed in their pre-college performance and ultimately in their higher education pursuits. Upward Bound serves students from low-income families and high school students from families in which neither parent holds a bachelor’s degree. The goal of Upward Bound is to increase the rate at which participants complete secondary education and enroll in and graduate from institutions of postsecondary education.

Upward Bound is funded by the US Department of Education, Office of Postsecondary Education TRIO Programs. For more information, visit the Upward Bound (https://ysu.edu/upward-bound/) website.

Readmission of Former Students
A former student is one who was previously admitted into an undergraduate degree program at YSU, has not attended for three or more consecutive terms, and has not attended another accredited college since attending. Students meeting this criteria can complete an application for readmission via the Penguin Service Center. There is no application fee. Upon receipt of the application, former students will be contacted by mail or email regarding the status of readmission, as well as advisement and registration information.

Students may apply by using the YSU Readmission Request Form (https://ysu.edu/sites/default/files/registrar/YSUUndergraduateReadmission.pdf) - Undergraduate Majors, Certificates and Tracks (https://ysu.edu/academics/). The completed form may be submitted to the Penguin Service Center in-person or my mail, fax or email.

If a student has attended another accredited college during their time away from YSU, the student should apply as a former transfer student through the Office of Admissions (https://ysu.edu/admissions/); they can be reached at (330) 941-2000.

CONTACT FOR QUESTIONS/CONCERNS
Office: Penguin Service Center
Location: Meshel Hall
Website: https://ysu.edu/penguin-service-center and https://ysu.edu/registrars-office

Information for Entering Students
First Year Requirement
Success Seminar
All first-time degree seeking undergraduates and transfer students with fewer than 30 transfer credits are required to take a Success Seminar in their first semester at YSU. Success Seminars are designed to provide students with a strong foundation for academic success at YSU.

First-year students admitted to the Strong Start program will take SS 1500: Strong Start Success Seminar. Students learn the “ins and outs” of the academic community, strengthen their study and time management skills, learn habits of mind that promote success, identify and balance competing priorities, and use appropriate campus resources to overcome challenges that arise.

First-year students admitted to the Honors College will take HNRS 1500: Introduction to Honors. This course prepares students for the expectations and requirements of the Honors Program. Students develop skills that aid in their overall academic endeavors and explore topics pertinent to their development within the Honors Program and as citizens of the university, local, national and global communities.

All other first-year students admitted to YSU will take YSU 1500: Success Seminar. This course helps students learn the conventions that govern the academic community including what is expected of them and what they are responsible for, skills needed to successfully manage their academic workload, study strategies, and habits of mind that promote success in college.

Contact for Questions/Concerns
Office: First Year Student Services
Location: Jones Hall
Website: https://ysu.edu/first-year-student-services
Orientation
First Year Student Orientation
Orientation is a requirement for all first-year undergraduate students. During orientation, students work with faculty and staff to help them with the transition into college. Students are acclimated to the university by learning about university expectations, building connections with other incoming first year students, and registering for their academic courses. They are also provided various opportunities to ask and learn about the available resources on campus, support services, and student organizations.

Student must take the following steps to register for orientation:

- Upon admittance to the university, students will receive a packet from the Office of Undergraduate Admissions with instruction on activating their Penguin Portal account.
- Once the account is activated and the student is logged in, they can then register by selecting “Register for Orientation”.
- After the reservation has been submitted, an email will be sent to the student with further information on the orientation program details & agenda.
- After attending Orientation, students will then register and attend the IGnite program.

Transfer Student Orientation
Transfer student orientation provides an opportunity for incoming transfer students to learn about the university, navigate any campus resources/technology, review transfer credit, and meet with an academic advisor. This program is offered in two different formats. Students can choose to complete the program in real time or through a prompted, self-paced program.

Transfer students must take the following steps to register for orientation and select their preferred format:

- Upon admittance to the university, students will receive a packet from the Office of Undergraduate Admissions with instruction on activating their Penguin Portal account.
- Once the account is activated and the student is logged in, they can then register by selecting “Register for Orientation”.
- After the reservation has been submitted, an email will be sent to the student with further information on the orientation program details & agenda.

International Student Orientation
The International Student Orientation program is designed to welcome students to YSU with a successful transition to campus. Topics covered in orientation include key information on immigration matters, health insurance, campus resources and more. All students will register for academic courses during orientation.

If necessary, students will also take placement tests during orientation.

After admittance to the university, students can register for orientation through the International Programs Office website.

IGNITE
IGNITE is a one-day program for first year students to connect with one another, the campus community, and find their place at YSU. It is a “Welcome to Campus” program for our newest Penguins that have attended summer/ fall orientation. The IGNITE program occurs the week prior to the start of fall classes each August.

CONTACT FOR QUESTIONS/CONCERNS
Office: First Year Student Services

Placement Tests
New students may be required to take placement tests to determine their readiness for college-level work. If placement testing shows that students are not prepared for college-level work, they will be placed into one or more developmental courses in English Composition, Reading and Study Skills, and/or Mathematics. The Composition Placement Test, the ACCUPLACER® Reading Test, and the ALEKS® Math Test are required of all students unless there is an automatic placement or exemption due to ACT/SAT scores. Students who have AP credit or transfer coursework may not need placement testing. Students will be informed about what testing is needed when they are accepted for admission to the University.

Students who are required to take one or more placement tests must do so before advisement and registration.

Composition Placement Test and ACCUPLACER Reading Test
The Composition Placement Test and the ACCUPLACER® Reading Test are required of a student who has not been placed through ACT/SAT scores, or is not required to take the ACT/SAT test. No student is permitted to register for classes without having taken the tests, except those students placed into English classes for non-native speakers and those with approved transfer credit.

Students placing into the following developmental courses must complete the specified coursework within their first 36 semester hours. Otherwise, the student will be limited to enrolling only for those developmental classes until they are completed successfully.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSS 1510A</td>
<td>Advanced College Success Skills</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1541</td>
<td>Introduction to College Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>4</td>
</tr>
</tbody>
</table>

Conditionally admitted students placing into the following courses must take these courses within their first 20 semester hours.

<table>
<thead>
<tr>
<th>COURSE</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>Advanced College Success Skills</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
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</tr>
<tr>
<td>ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>4</td>
</tr>
</tbody>
</table>

Students directed to enroll in the following courses must do so. The student may not withdraw from these courses unless he or she is making a complete withdrawal from the University.

<table>
<thead>
<tr>
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<td>4</td>
</tr>
</tbody>
</table>

None of the above-named mandatory developmental courses may be taken more than twice without the approval of the college dean. Should a student not successfully complete any of these courses within two attempts, or if he or she withdraws from them twice, the student will be unenrolled from the University.

Please note that credit hours from the following courses will not count toward a degree.
English Composition Requirement

A student must complete the regular English composition requirement for graduation within the first 60 hours of coursework. A student who does not complete the English requirement within the first 60 hours of coursework will be prohibited from registering for any additional upper-division courses until the English requirement has been met. Transfer students having completed 60 hours or more are exempt from this policy for their first 12 hours of enrollment at Youngstown State University.

For more information about Placement Tests, please visit the Testing Center (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/) page for more information.

ALEKS Math Test

Students who have not been placed through ACT/SAT scores or are not required to take the ACT/SAT test must take the ALEKS® Math Test unless they have approved AP math credit or sufficient transfer coursework. Students will be placed into appropriate mathematics courses based on their ACT/SAT scores or the ALEKS® Math Test.

Please note that credit hours from the following developmental courses will not count toward a degree.

<table>
<thead>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1500</td>
<td>Mathematics Preparation for Algebra Placement</td>
<td>2</td>
</tr>
</tbody>
</table>

For more information regarding math coursework, visit the Department of Mathematics and Statistics (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/) page for a sample math placement test, visit ACT.

Foreign Language Placement Test

Students in AB degree programs must satisfy a foreign language requirement for the degrees. Students in the BA and BM degree programs in the College of Creative Arts and Communication should consult with advisors in that college.

Students may enroll in any 1550 elementary foreign language course without taking the FLPT.

Students who wish to begin their college-level foreign language study with 2600 Intermediate or above to satisfy the requirement MUST take the foreign language placement test (FLPT).

Students with AP credit in a foreign language have completed the requirement. Students with transfer credit for college foreign language courses may enroll in the next course in the sequence.

Visit the Foreign Language Requirement (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/) page for more information.

For Questions or Concerns
Office: Comprehensive Testing Center
Location: Maag Library
Website: https://ysu.edu/testing-center/
“edge of excellence” for the University, providing more than $9.9 million in scholarship assistance annually for YSU students. The Scholarships for Excellence programs are awarded to eligible new high school graduates, transfer students, and current students. Current and transfer students will automatically be considered for these scholarships. In addition, incoming freshmen should apply for admission by February 15 to be considered for these scholarships automatically.

Please note: Undergraduate Scholarships for Excellence program guidelines are subject to change. Students cannot be awarded more than one scholarship through the Scholarships for Excellence program.

Click the following link to view a current list of the Scholarships for Excellence (http://www.ysu.edu/content/office-financial-aid-and-scholarships/scholarships/).

YSU Foundation Scholarship Application

The Youngstown State University Foundation (YSUF) is an independent, non-profit organization that distributes resources from privately held funds to support YSU students through scholarships. The YSU Foundation is the designated philanthropic entity of Youngstown State University. Upon completion of the single application, students will be considered for a number of YSU Foundation scholarships. See the YSU Foundation Scholarship Application (https://cfweb.cc.ysu.edu/finaid/ysuf/ysuf_application.cfm) on the office website for additional information and to apply.

Other YSU Scholarships

For a listing of scholarship opportunities currently available to YSU students, go to the Scholarship Search (http://cfweb.cc.ysu.edu/finaid/scholar/est_scholar.cfm).

Students are also encouraged to explore these supplemental options for scholarship resources:

- Their particular college or department for academic specific scholarships
- Student’s and/or parent(s’) employer for scholarships or fee remission opportunities
- Local community resources for scholarship programs, such as church organizations and libraries
- Free internet web searches through sites such as Fastweb (http://www.fastweb.com/) or FinAid (http://www.finaid.org/)

Grants-in-Aid

Grants-in-Aid are gift monies that do not need to be repaid. The amount of grant aid awarded is determined by the recipient’s financial need and/or academic record and character. The following is a list of Grant-in-Aid funds a student could potentially qualify to receive:

- Federal Pell Grant: A need-based federal grant provided to eligible undergraduate students pursuing a first bachelor’s degree or associate’s degree. A FAFSA must be filed yearly to be considered for this grant.
- Federal Supplemental Educational Opportunity Grant (FSEOG): A need-based grant funded by the federal government and awarded by YSU. Students who meet the eligibility requirements for the Federal Pell Grant, and meet the priority filing deadline of December 1 for new students and February 15 for continuing students, receive primary consideration for this campus-based aid program.
- Ohio College Opportunity Grant (OCOG): Grant funds awarded by the State of Ohio to full-time, undergraduate students who are residents of Ohio and who are pursuing a first bachelor’s degree or associate’s degree. Eligibility is based on family income. The FAFSA must be completed by October 1 of each year to be considered for this grant.
- Pennsylvania Higher Education Assistance Award (PHEAA): Grant funds provided to Pennsylvania residents who are YSU students. Students may be full-time or half-time undergraduates enrolled in an approved program of study requiring at least two years to complete. File the FAFSA by May 1 of each year to be considered for this grant.
- YSU Foundation PHEAA Supplemental Grant: Due to the legislative cap on Pennsylvania grants to Pennsylvania residents attending Ohio universities, YSU has initiated a supplemental grant program funded by YSU and the YSU Foundation. This grant will be automatically awarded to YSU students who are awarded and eligible to receive a PHEAA grant. The supplemental grant will be awarded in amounts up to 200% of the PHEAA grant, subject to availability of funds.
- Veterans’ Administration Education Assistance: The Department of Veterans’ Affairs provides education assistance to veterans or current armed service personnel. Programs include contributory plans, rehabilitation benefits, work-study, and dependent/spousal benefits. Contact the Office of Veterans Affairs at (330) 941-2503 or toll-free at 888-GI-BILL1 (888-442-4551).
- Bureau of Vocational Rehabilitation Awards: Programs funded by the Bureau of Vocational Rehabilitation in Ohio (BVR) and the Office of Vocational Rehabilitation in Pennsylvania (OVR) that provide grants for tuition, fees, and/or books for residents with disabilities. Eligibility is determined by each state’s Bureau.
- Ohio War Orphans: Grant funds for children of disabled or deceased U.S. Armed Forces veterans. There is a needs test required, the student must be an Ohio resident attending an Ohio college or university, and be under the age of 25 upon application. The grant pays a percentage of tuition and fees. For additional information, contact (614) 752-9528.
- Ohio National Guard: Provides grants paying for 100% of instructional and general tuition fees for members who are full-time undergraduates. Apply through the National Guard. Pay close attention to deadlines. For additional information, contact (614) 336-7053.

Employment

To assist in paying for educational and living expenses, currently enrolled students in good standing may apply for on-campus employment. On-campus employment opportunities are posted online (https://jobs.ysu.edu/). Students are encouraged to check regularly for open positions.

Federal Work-Study is a need-based program that provides eligible students with funding for on-campus employment. Federal Work-Study students receive paychecks for hours worked and may utilize those funds toward educational and living expenses. To receive maximum consideration for this campus-based program, the FAFSA must be filed by the priority deadline of December 1 for new students and February 15 for continuing students with the student having answered “yes” to the question "Are you interested in being considered for work-study?” on the application.

Loans

Loans are a form of self-help financial aid utilized by many students to help meet educational expenses. Borrowing responsibly is key as many loans have borrowing limits, accrue interest, and must be repaid.

- Federal Direct Subsidized and Unsubsidized Stafford Loans: The federally funded Subsidized Stafford Loan has its interest paid while the student maintains at least half-time enrollment. Federal Unsubsidized Stafford Loan interest accrues from the time the loan is first disbursed. (Note: Graduate students are only eligible for unsubsidized loans.) For a list of the most current interest rates on Stafford Loans, please see the YSU Foundation Loan (http://www.ysu.edu/content/office-financial-aid-and-scholarships/student-loans/) page on the Office of Financial Aid and Scholarships website. Repayment of both types of Stafford Loans begins six months after graduation, separation, or enrollment of less than half-time. Student borrowers cannot exceed their designated annual loan limits and maximum total debt allowed by federal law (see the Office of Financial Aid and Scholarship’s website (http://www.ysu.edu/content/office-financial-aid-and-scholarships/) for more information).
- Federal Direct PLUS Loan: This federally funded loan is for the parents of dependent, undergraduate students who are potentially eligible to borrow
The purpose of this review process is to measure whether a student is making satisfactory progress towards his or her educational goals. All federal programs and the Ohio College Opportunity Grant (OCOG) are affected when a student is not in compliance with the Satisfactory Academic Progress Policy. (The Pennsylvania Higher Education Assistance Grant (PHEAA) is not governed by the Satisfactory Academic Progress Policy, but rather by the respective state).

YSU’s Satisfactory Academic Progress requirements for undergraduate and graduate students include the following three components:

1. Grade Point Average (GPA)
   All students at Youngstown State University are required to maintain a minimum cumulative grade point average. Undergraduate students must maintain a minimum 2.0 GPA. Graduate students are required to maintain a 3.00 GPA. The following grades are included in the GPA calculation: A, B, C, D, and F. The GPA calculation excludes the following grades: CR-credit; NC-no credit; AU-audit; I-incomplete; W-withdrawal. For incompletes, the credit hours apply to the term the student was enrolled, not the term the student was making up the incomplete. Students who wish to improve their cumulative GPA by repeating a course will be subject to a GPA recalculation. However, a recalculation will be made for only the immediately preceding grade for the course, regardless of the number of repeats, and may be made only once for any course.

Students academically suspended cannot receive federal aid during the period of suspension.

2. Max Time Frame
   When a student’s attempted hours reach 150% of the maximum hours needed to complete an associate (between 90 and 110 hours) or bachelor’s degree (between 180 and 216 hours), federal financial aid eligibility will be suspended unless the time frame is extended with an appeal accompanied by an Academic Advisor Evaluation. Graduate degrees must be completed by the length of time standards established and monitored by the School of Graduate Studies.

Please Note:
- All credit hours, including hours accepted as transfer credit, are included in the maximum time frame calculation regardless of the number of degrees a student chooses to pursue.
- All terms of attendance are reviewed including terms of remedial coursework or when no federal aid was received.

3. Percentage Completion
   At the time of the annual assessment, completed hours as a percentage of attempted hours, must meet the following minimum requirements:
   1. Freshmen (0-29 hours earned) must complete a minimum of 55% of the total cumulative hours attempted;
   2. Sophomore (30-59 hours earned) must complete a minimum of 60% of the total cumulative hours attempted;
   3. Junior (60-89 hours earned) must complete a minimum of 65% of the total cumulative hours attempted;
   4. Senior (90+ hours earned) must complete a minimum of 70% of the total cumulative hours attempted;
   5. Graduate (13+ grad hours attempted) must complete a minimum of 50% of the total cumulative hours attempted

Percentage completion is calculated by dividing earned hours by cumulative hours attempted. For financial aid satisfactory academic progress purposes, attempted hours exclude audited hours and withdrawals made by the last date to receive a 100% refund. The following grades negatively impact the percentage completion calculation: F-failed; NC-no credit; AU-audit; I-incomplete; W-withdrawal. For Incompletes, note that the credit hours apply...
to the term in which the student was enrolled in the course, not the term the student was making up the incomplete.

**Transfer Students**
Transfer students will be eligible for federal aid through the spring semester of the academic year they begin at YSU. During the spring semester, these students will be evaluated under the Satisfactory Academic Progress Policy. Transfer hours will be included in the number of hours earned and attempted, but only YSU grades enter into the GPA calculation.

**Non-Degree Students (undergraduates, post-undergraduate, and graduate)**
A student must be enrolled in a degree program to receive federal financial aid.

**SAP Appeal Process**
If a student is non-compliant, he/she must appeal the denial of financial aid by submitting an appeal form that explains the circumstances. Supporting documentation may be required to review conditions that can include: severe physical or mental illness or injury of the student or immediate family, death of a relative, or other mitigating circumstances. Appeals will be evaluated by the Satisfactory Academic Progress Appeal Committee, which will respond via email with the decision within 30 days, whether approved or denied.

Students who do not appeal, or who are denied by the Committee, will not be eligible for federal financial aid programs effective summer semester and until they satisfy all deficiencies without receiving federal student aid funds. Federal regulations require students who successfully appeal to be placed on a semester based Financial Aid Probation and Academic Progress Plan. At the end of the probationary term, the semester based grade point average, semester based completion percentage, and/or semester based academic action plan requirements must be met to receive federal aid for the subsequent semester unless across-the-board compliance with overall SAP was established. The decision made by the Satisfactory Academic Progress Appeal Committee is final. As previously indicated, students can expect to receive an appeal decision via email within 30 days of the office receiving their Satisfactory Academic Progress Appeal form.

**Financial Aid Refund Policy**
The refunding of financial aid funds to the appropriate funding source corresponds to federal regulations, the Return of Title IV fund requirements and YSU’s refund policy regarding student fees upon withdrawal from class(es). This policy is explained in greater detail in the Undergraduate Catalog.

**Commonly Used Financial Terms**

- **Cost of Attendance (COA):** The total cost of attending school for one academic year, including direct costs (tuition, fees, room, and board) and indirect costs (books, supplies, transportation, and additional miscellaneous expenses).

- **Expected Family Contribution (EFC):** The amount that a student and their family will be expected to contribute toward educational expenses, as determined by the federal government, based on the information supplied on the FAFSA. For more information regarding the formula used to determine the EFC, go to the "How Aid is Calculated" section of the Federal Student Aid website (https://studentaid.gov/complete-aid-process/how-calculated/). Information on EFC calculations can also be obtained by calling 1-800-4-FED-AID.

- **FAFSA (Free Application for Federal Student Aid):** A common form found online at studentaid.ed.gov/SA/fafsa (https://studentaid.ed.gov/SA/fafsa/) that a student (and parents when applicable) complete in order for the federal processor to determine the student/family EFC. The EFC is then used by YSU to determine a student’s overall financial need. FAFSA must be completed each year in order for a student to be considered for loans, grants, and certain scholarships.

- **Financial Aid:** All forms of financial assistance which include gift aid (scholarships and grants), as well as self-help aid (work programs and loans).

- **Financial Need:** The difference between the Cost of Attendance and the Expected Family Contribution.

- **Gift Aid:** Aid, usually in the form of scholarships and grants, that does not have to be paid back.

- **Grant:** Gift aid awarded to a student on the basis of financial need, and in some cases, academic performance and character. Grants do not have to be paid back.

- **Scholarship:** Gift aid awarded on the basis of academic performance, talent, other unique criteria as established by the donor/organization, and/or financial need.

- **Subsidized:** A subsidized loan is a need-based loan in which the government pays the interest while the student is enrolled at least half-time in school.

- **Verification/Documentation:** The process by which YSU confirms the accuracy of the information supplied on FAFSAs each year as required by federal regulation. If a student is selected for verification documentation, they (and their parents when applicable) will be asked to supply the Office of Financial Aid and Scholarships with additional information and copies of documents such as W-2’s and federal tax return transcripts.

- **Unsubsidized:** An unsubsidized loan is not based on financial need. The borrower is responsible for all interest that accrues.

**Office Information And Hours**

**Mailing Address:**
Youngstown State University
Office of Financial Aid and Scholarships
One University Plaza
Youngstown, OH 44555-3505

**Telephone:** (330) 941-3505
**Appointment Line:** (330) 941-3506
**Fax:** (330) 941-1659
**Email:** ysfinaid@ysu.edu

**Web address:** www.ysu.edu/finaid (http://www.ysu.edu/content/office-financial-aid-and-scholarships/)

**Office Hours:** Monday-Friday; 8:00am-5:00pm
**Walk-in Hours:** Monday-Friday; 10:00am-12:00pm and 2:00pm-4:00pm

**Honors College**

**HONORS COLLEGE**

**Dean Amy L. Cossentino**

**Mission of the Honors College**
The mission of the Youngstown State University Honors College is to provide academically talented students of any discipline with a community of excellence to develop their full intellectual and cultural potential. Through a combination of extraordinary learning experiences in small classes and experiential seminars, living-learning communities, unique and flexible resources for commuter students, leadership and innovative engagement activities, service-learning and traditional volunteer initiatives, interdisciplinary projects, research opportunities, and community, regional, and global
perspectives, we fulfill this mission. As a direct outgrowth and articulated in the YSU Mission Statement, the Honors College “places students at our center” of an energized and inclusive community of faculty, staff, and alumni who share in the pursuit of life-long excellence in learning and civic engagement.

Outcomes

ENRICHMENT

Eligible students who desire an enriched education may take honors courses and thus participate in the “honors experience” by applying to the Honors College.

HONORS DIPLOMA

Students may apply to the Honors College, pursuing excellence in a broad range of subjects. Successful completion of this guided course of study will be acknowledged with a special designation on the commencement program, diploma, and final transcript.

Benefits of Joining

- Students enjoy the benefits of early registration each semester they are actively participating.
- Honors students are part of a community of academically motivated students and alumni.
- Honors students are eligible to live in the Honors College’s living and learning center, Cafaro House Residence Hall, or The Courtyards Apartments - Building #2.
- Course material is covered in much greater depth than in a traditional class. Therefore, Honors students receive a “value-added” educational opportunities.
- Members may use the facilities in Fok Hall, which includes wireless connectivity, study space, and a student lounge.
- As reflected by the transcript and diploma, an Honors student has shown the desire and ability to go above and beyond what is traditionally required by the University. This is particularly impressive to graduate and professional schools and potential employers.
- High-achieving students benefit from the experience of taking classes and learning with some of the most academically talented students in the nation.

Administration of the Honors College

The program is operated by the Dean of the Honors College who reports to the Provost. The honors curriculum is under the jurisdiction of the Honors Committee of Academic Senate.

Baccalaureate Honors

ENTRANCE REQUIREMENTS

1. Students qualify with a 3.5 overall grade point average and at least a composite ACT score of 26, or combined SAT score of 1240 on the new SAT (or 1760 on the old SAT).
2. Current YSU students must have completed at least 12 semester hours of college-level study (not to include remedial courses) with a cumulative GPA of at least 3.4.
3. Transfer students must have completed at least 15 semester hours of college-level study accepted for credit at YSU (not to include remedial courses) with a cumulative GPA of at least 3.4.
4. Students enrolled in or eligible to enter the Honors College and others approved by the instructor and Dean of Honors may take honors courses.
5. To remain in good standing in the Honors College, students must maintain a GPA of at least 3.0. Students falling below this level for two consecutive semesters will be removed from the program.
6. Students who complete no honors work for two consecutive semesters will be suspended from the program. Satisfactory progress must be made in order to fulfill all applicable honors college scholarships.
7. Completing the honors requirements necessitates an average of five to six credit hours of honors work per semester for the first four semesters, unless the student will graduate in less than four years. If graduating in less than four years, the student should work with the Honors College staff to map out a plan for completion. All honors coursework, except for the senior honors thesis or capstone, should be completed before the senior year.

Baccalaureate Honors Curriculum

(for students who enroll beginning Summer semester 2020)

Students who enter into the Honors College beginning summer semester 2020 are required to complete at least 24 semester hours of honors work, including a senior thesis or capstone.

Further requirements include the following:

- Intro to Honors Seminar – 1 credit (to be taken in the first semester)
- Campus Community Partnership Seminar - 1 credit (to be taken after the first semester)
- General Education Requirements – 9 credits (GER’s should be taken as actual honors courses and not contracted)
- Other – 12+ credits (Combination of seminars, upper division courses, or general education requirements)
- Senior Honors Capstone 1 1-3 credits

1 During the senior year, a capstone thesis/project in the major department is required. This is generally worth 1-3 semester hours depending upon the department. A faculty advisor, selected by the student and approved by the Director of Honors, will oversee this project. The completed capstone in the form of a thesis should be bound and archived by the Library and stored in the Honors College, Fok Hall. Certain projects other than theses may be presented in poster form or technologically recorded and similarly archived and stored. A public defense is required and may be in the form of an exhibition, recital, formal presentation at a regional/national conference or Quest. Projects completed by individuals, teams, and teams of students working with community officials are all appropriate.

Associate Honors

The pre-college requirements for the Honors Associate track are identical to those of the four-year Honors Program. Students who have not completed the college preparatory subjects are admitted to the Honors Associate Program on the condition that their course of study includes at least one course prescribed for correcting a deficiency each semester until the deficiencies have been erased. Courses taken at the college level and used to make up a deficiency will be applied toward the Honors Associate Program.

The following students qualify, upon application for the Honors Associate track:

- Students with a 3.5 overall grade point average and a Composite ACT score of 26 or a combined SAT of 1260 (new) 1760 (old).
- Current YSU students having completed at least 12 semester hours of college-level study (not to include remedial courses) with a cumulative GPA of at least 3.4.
- Students having completed at least 15 semester hours of college-level study accepted for credit at YSU (not to include remedial courses) with a cumulative GPA of at least 3.4.
Honors Associate Curriculum

- First Year Honors Seminar – 1 credit (To be taken in either the first semester.)
- Campus Community Partnership Seminar - 1 credit (to be taken after the first semester)
- General Education Requirements – 6 credits (GER’s should be taken as actual honors courses and not contracted.)
- Other – 3+ credits (Combination of seminars, upper division courses, or general education requirements.)
- Honors Capstone – 1-3 Credits

Individualized Honors Curriculum (IHC)
An individualized honors curriculum (IHC) is available for high-achieving students who wish to alter any of the requirements listed above for either the associate or baccalaureate Honors Programs. The IHC may be necessary for first-year students entering with more than a year of college credits from College Credit Plus, Advanced Placement and other transfer credits. Students on the IHC plan are required to complete HONR 1500 and HONR 2601P. However, the student should prepare a full proposal that includes:

- an individualized meeting with honors staff application for IHC (available from the Honors Office)
- reasons for choosing not to follow the prescribed honors program
- goals of the IHC
- exact courses and the course format (i.e. AP honors, honors class, contract honors, independent study, honors capstone, study abroad, etc.)
- 24 credits at the honors level required
- outcomes of the IHC
- estimated time to completion

Course Credit Generation
Honors credit generation includes:

- earned honors credit through advanced placement examination
- special sections of traditional courses
- seminars on special topics
- contract honors as necessary
- advanced course work in areas outside of the major
- a common theme when possible, such as the Math Department Honors Pathway
- a capstone project or thesis in the senior year

Advanced Placement Honors Credit
Another way for students to earn honors credit is through meeting a defined benchmark score on the AP exam for YSU courses that have an associated honors section. Students may utilize up to a maximum of 11 AP honors credits of the required 24 honors credits required to graduate with an honors diploma. A student must complete at least 13 credits of the 24 credit hours of honors course work directly from YSU, excluding AP, through seminars, contracts, honors courses, and capstone. Students map out a plan for completion in HONR 1500. To review a listing of AP credits approved for honors courses, visit https://ysu.edu/registrars-office/credit-examination-ap-information/ (https://ysu.edu/registrars-office/credit-examination-ap-information/)

Transfer of Honors Credit
- Honors credit from other institutions will be accepted as honors credit and can be used to partially fulfill the requirements for the Honors Program at Youngstown State University provided that the honors credit was earned in a college-level course with a grade of B or higher.
- Upon application, all students from other honors programs who were in good standing relative to their previous program will be admitted into the YSU Honors Program. Honors credit earned at other institutions will be accepted as honors credit and can be used to partially fulfill the requirements for honors at YSU subject to review by the Honors Program Director.
- To graduate with an Honors diploma, a student must complete at least 13 of the total 24 semester hours of honors course work from YSU, fulfill the depth and breadth requirements of the Honors program, and complete a senior thesis or capstone in the major discipline. For more details, consult with the Honors Dean.
- Students who transfer into the YSU Honors Program have all the rights and privileges granted to its members, e.g., honors housing, priority registration, use of honors facilities, etc.

Courses of Instruction
THE NATURE OF AN HONORS COURSE
When compared to a non-honors course, an honors course should:

- Cover material in greater depth
- Encompass more complex concepts, stressing analysis
- Place greater emphasis on communication skills
- Include discussion of applicable theories in the field
- Require of the students more preparation and class participation, including more ambitious papers or projects, as well as a greater share of responsibility for learning
- Involve more state-of-the-art technology whenever possible and appropriate

HONORS COLLEGE COURSES
HONR 1500 Intro to Honors 1 s.h.
Prepares students for the expectations and requirements of the Honors Program. Students develop skills that aid in their overall academic endeavors and explore topics pertinent to their development within the Honors Program and as citizens of the university, local, national and global communities.
Prereq.: Admission to the University Honors Program or eligibility for admission to the University Honors Program.

HONR 1599 Special Topics 3 s.h.
An introductory-level examination of some topic appropriate for honors study. Typically team-designed. In certain cases, students may arrange to have the course counted toward the major by negotiation with the major department. With approval of the director of Honors, may be repeated for credit with different topics.
Prereq.: Admission to the Honors Program or permission of instructor and director of Honors.

HONR 2601 Honor Seminar 1-2 s.h.
An interdisciplinary seminar series dealing with topics appropriate to students in the Honors Program. The subjects include, but are not limited to, creativity, the organization and function of the university, the total human being, critical thinking, current events, etc.
Prereq.: Eligibility for the Honors Program.

HONR 2602 Honor Seminar 1-2 s.h.
An interdisciplinary seminar series dealing with topics appropriate to students in the Honors Program. The subjects include, but are not limited to, creativity, the organization and function of the university, the total human being, critical thinking, current events, etc.
Prereq.: Eligibility for the Honors Program.

HONR 2602V Honor Seminar Native American Footprint in Northeast Ohio 1-2 s.h.
An interdisciplinary seminar series dealing with topics appropriate to students in the Honors Program. The subjects include, but are not limited to, creativity, the organization and function of the university, the total human being, critical thinking, current events, etc.
Prereq.: Eligibility for the Honors Program.
HONR 2602W  |  Honor Seminar Introduction to Yoga and Meditation  |  1-2 s.h.
An interdisciplinary seminar series dealing with topics appropriate to students in the Honors Program. The subjects include, but are not limited to, creativity, the organization and function of the university, the total human being, critical thinking, current events, etc.
Prereq.: Eligibility for the Honors Program.

HONR 2699  |  Special Topics  |  3 s.h.
A close examination of some topic appropriate for lower-division honors study. Typically team-designed. In certain cases, students may arrange to have the course counted toward the major by negotiation with the major department. With approval of the director of Honors, may be repeated for credit with different topics.
Prereq.: Admission to the Honors Program or permission of instructor and director of Honors.

HONR 3701  |  University Honors Seminar  |  1-2 s.h.
A critical investigation of selected areas underlying civilization, embracing and integrating the particular studies of science, society, and the humanities.
Prereq.: Eligibility for the Honors Program.

HONR 3702  |  University Honors Seminar  |  1-2 s.h.
A critical investigation of selected areas underlying civilization, embracing and integrating the particular studies of science, society, and the humanities.
Prereq.: Eligibility for the Honors Program.

HONR 3799  |  Special Topics  |  3 s.h.
A close examination of some topic appropriate for upper-division honors study. Typically team-designed. In certain cases, students may arrange to have the course counted toward the major by negotiation with the major department. With approval of the director of Honors, may be repeated for credit with different topics.
Prereq.: Admission to the Honors Program or permission of instructor and director of Honors.

HONR 4890  |  Senior Honors Thesis  |  1-3 s.h.
Directed research for students pursuing senior honors thesis research. May be repeated for up to 3 s.h.
Prereq.: Junior status; completion of 18 s.h. of Honors coursework; submission of an approved Honors thesis proposal; and permission of the honors director.

Contract Honors Courses
Any course other than those which are offered as an honors course (ENGL 1550H Honors Writing 1, MATH 1585H Honors Accelerated Calculus 1, etc.), remedial, or high school remedial courses may be taken for honors credit with the concurrence of the faculty teaching the class and the approval of the Honors Program Director.

The contract honors option does not involve more credit hours for a course, but rather credit of a different kind. Proposals should involve not simply more work on the part of the student, but rather work in greater depth. Proposals are initiated by the student after consulting with the instructor, then carefully reviewed by the department chair. Chairs certify that by the standards of the discipline, proposals meet the criteria listed. Contract Honors Proposals are generated online through the Honors Student Dashboard with approval of proposals completed electronically. More information and instructions for using the Dashboard can be obtained by contact the Honors College.

Remedial courses are not suitable for contract honors. Contracts are not normally approved when an honors section exists for the same course (e.g. ENGL 1551H Honors Writing 2). Projects in the historiography of any discipline are acceptable. Contract proposals must be submitted by the published due date.

Completion status is reported by faculty to the Honors Dean via the online Honors Contract Completion Tracking System. Instructions for accessing the system are sent to faculty via email by the week before finals week.

University Honors Program Engagement Requirements

VOLUNTEERISM AND SERVICE-LEARNING
Honors students are required to complete 60 hours of volunteerism on an annual basis. Reporting of volunteerism is required at the conclusion of each activity. Students are required to engage in at least two Honors College sponsored volunteer events of their choice.

ENGAGEMENT/LEADERSHIP/CO-CURRICULARS
Students who connect to the university through active participation demonstrate higher satisfaction and retention. Honor students are required to engage in student life.

Student Programs and Organizations
Multiple organizations are available to students in the Honors College. MALAINA, Women in Honors, Residential Honors Council, Transcribing Club, as well as Alpha Lambda Delta and Phi Kappa Phi, are just some of the associated organizations.

National Fellowships and Scholarships
The Honors College leads the National Scholarship Committee composed of faculty and staff from across the campus to advertise scholarship opportunities and prepare students for prestigious competitions such as the Truman, Marshall, Goldwater, and Rhodes Scholarships. Information and applications for these scholarships are maintained by the Honors College Office.

STUDY ABROAD/GLOBAL CITIZENSHIP
Honors students are encouraged to participate in study abroad experiences. The Honors College staff will assist students with letters of recommendation for participation and potential scholarship opportunities. Opportunities for Global Citizenship will be available for students and may take the form of Volunteerism or Leadership opportunities when a formal study abroad experience is not possible. Students are encouraged to seek out opportunities from their international peers through gatherings and activities such as: fireside chats, international coffee hours, international cultural events, etc.

LIVING-LEARNING ENVIRONMENTS (OPTIONAL)
Both residential and commuter students can enjoy the community that exists within honors. Two on-campus honors residential learning communities--Cafaro House and Building #2 of the Courtyards are available. Cafaro House is equipped with a computer lab and academic wing. The accommodations are 4-, 8-, and 18-person suites with two students per room. The Courtyards offer either 4-person, 2-person, or single apartments. No matter the apartment type, each student has his/her own bedroom. Fok Hall now serves as the home for the Honors College staff and is situated half-way between both residential communities and within convenient walking distance from the discipline colleges. Available in Fok Hall is a student lounge, conference room, study space, meeting rooms, and relaxation room, -all of which provide space for community building and learning. Commuter and residential students enjoy the home-like atmosphere within Fok Hall to foster learning and collaboration.

DOCUMENTATION OF ANNUAL STUDENT LEARNING OUTCOMES AND PROGRAM REQUIREMENT COMPLETION
Honors students are required to complete documentation of all requirements for the annual end of the year review. The review will determine scholarship renewals and progress in the program to meet annual student learning outcomes for the five pillars: Leadership/Engagement, Interdisciplinary Perspectives, Volunteerism/Service Learning, Research and Scholarship, and Global Citizenship.
Students are required to maintain records and report all service conducted outside of the university, student work demonstrating mastery of student learning outcomes, and other scholarly and academic work of added value to retain in the online portfolio.

**DOCUMENTARY RECOGNITION OF SUCCESS IN THE HONORS COLLEGE**

**GRADE RECORDS**

A student’s permanent record will be the sole official record of his or her honors courses and seminars, each of which will be designated with an “H” after the catalog number, or in some cases, with a note detailing that honors credit was earned for that particular course.

**COMPLETION OF THE HONORS COLLEGE REQUIREMENTS**

Upon satisfactory completion of Honors requirements, the Honors Dean will initiate having the appropriate distinction entered on the student’s record and diploma.

**Tuition, Fees, and Charges**

Tuition and fees are assessed based on the number of credit hours of enrollment, residency, course and/or program. The Board of Trustees of Youngstown State University has pledged to make every effort to keep the required fees as low as is consistent with providing quality education. It is intended that fees not be adjusted more often than annually and that fee changes be announced in the spring or early summer. The Board of Trustees does, however, reserve the right to change any fee, charge, or fine without notice if conditions warrant.

**Application for Involuntary Withdrawal**

If a student withdraws for reasons beyond his or her control (e.g., illness, military service, job transfer, shift change imposed by the employer that creates a direct conflict with the class schedule or death in the family (p. 26)), the fee charges may be reduced in proportion to the number of weeks enrolled, upon submission and approval of an Application for Involuntary Withdrawal.

An Application for Involuntary Withdrawal can be processed only for courses in which the student has already received a grade of “W” (withdrawn). Applications for involuntary withdrawal will be considered only for semesters falling within the immediately preceding one-year time period (3 semesters). Appeals pertaining to semesters beyond this one-year time limit will not be accepted. All applications for involuntary withdrawal must be documented. Applications are processed only by mail on forms provided by Office of University Bursar. Address such correspondence to:

**Fees and Charges Appeals Board**

c/o Office of University Bursar
Youngstown State University
One University Plaza
Youngstown, OH 44555

The decision of the Board is final and not subject to re-appeal.

**Billing**

Student accounts are billed each semester (bills will be issued approximately the 10th of July for the Fall semester and the 10th of December for the Spring semester, and payments are due approximately the 1st of the following month respectively). Go to Online Programs (https://online.ysu.edu/) for information on billing for online programs. ALL tuition statements will be issued electronically and must be viewed online. Paper bills are never mailed. If you need a paper copy of your statement, you may print it directly from the Penguin Portal. An e-mail notice that the bill is online for your review will be sent, to the student and all authorized users, each time a new statement is released as well as each time account activity alters a payment plan balance. This statement, as well as all subsequent tuition statements, will also be available online for your review via the Penguin Portal (https://penguinputalysys.com/).

Go to View My Bill (https://my.ysu.edu/cp/home/displaylogin/?goto=https%3A%2F%2Fmy.ysu.edu%2Fcp%2Fiib%2Flogin%3Fsys%3D3dscdbb%26amp%3Burl%3Dhttps%3A%2F%2Fscctssap.admin2.ysu.edu%3A8443/pls/PRODS/zwgktnt.P_Redirect%3F3FormTarget%3D_self) and log in to review statements, make online payments, enroll in payment plan, establish an authorized user, view holds, and select tax information.

**YOU ARE STRONGLY ENCOURAGED TO PAY YOUR BILL ONLINE AT YSU.EDU/VIEWMYBILL.**

You may also make payment:

* *in person at the payment windows on the second floor of Meshel Hall. Cashier Hours are Monday through Friday 10:00 a.m. - 2:00 p.m.* or

* *via the payment drop box also located on the second floor of Meshel Hall (check only, no cash)* or

* *by mail to: Youngstown State University, Attention Office of University Bursar, One University Plaza, Youngstown, OH 44555 (check only, please do not mail cash). Please make checks payable to Youngstown State University.

You may pay online by eccheck (no additional charge) or with Visa, MasterCard, or Discover. There is a 2.85% convenience fee, minimum of $3.00, for payments made by credit card.

If you deliver a check in person, mail it, or place it in the payment drop box, you authorize us to convert that check to an electronic Automated Clearing House (ACH) transaction. That check will then appear on your monthly bank statement as an Electronic Debit. If you do not wish to have your paper check converted to an ACH, you must present it in person or select an alternative payment method (for instance, credit card).

Your enrollment at the University creates a contract between you and YSU. If you choose not to attend the University, you must officially withdraw from all courses in accordance with the published tuition refund schedule at University Bursar Tuition Refund Policy (https://ysu.edu/university-bursar/tuition-refund-policy/) to receive 100% refund or reduction of charges. All days of the week are counted, including weekends and holidays. Please be advised that all University offices are not open on weekends and holidays; thus, online withdrawal may be required.

If you decide to withdraw from the University once you have enrolled, you must access the registration functions through the Penguin Portal.

Students may choose to opt-out of the First Day Ready electronic materials charge by contacting the Office of University Bursar and completing an opt-out form. The deadline for opting out of a First Day Ready electronic materials charge is the same as the 100 percent refund period for tuition as posted in the published tuition refund schedule at University Bursar Tuition-Refund Policy (https://ysu.edu/university-bursar/tuition-refund-policy/). For additional information go to First Day Ready Electronic Materials Opt-Out Process (https://ysu.edu/university-bursar/opt-out-process/).

You may also enroll in a payment plan, for current term charges, through the Penguin Portal. Payment plan enrollment must be processed online and requires an initial payment at the time of enrollment. There is a fee for enrollment in the payment plan, and late payments are subject to late payment fee assessment. All tuition balances are due in full by the due date unless you enroll online in an authorized payment plan. Please note, if your balance is not paid in full by the due date, or you have not enrolled online in the payment plan, your account will be subject to late payment fee assessment. Payment plan enrollment is not available for the online RN-BSN program.
Students may designate another individual as an "authorized user(s)" by going to ysu.edu/viewmybill, log in, and click on Authorized Users on the right side of the page. Follow the instructions to set up an authorized user. Once an authorized user has been set up by the student, that individual will also have online access to the student’s tuition statements by logging on at Youngstown State University Student Account Suite (https://epay.ysu.edu/C21820_tsa/web/login.jsp). Online payments can also be made via this website. E-mail notifications will be sent to both parties whenever a transaction is processed.

Please note, if a payment is made by credit card and subsequently a refund is due, it will be issued by direct deposit directly to the student. The Youngstown State University e-mail system is the official means of communication, and all students and employees are responsible for information sent to them via their MyYSU account. It is the policy of this institution that:

• all students, faculty, and staff have access to e-mail, and
• the university will send official communications via e-mail and electronic mailing lists

Please be advised that failure to read e-mail, or regularly review your student account online, does not relieve a student of the responsibility to make on-time payment in the correct amount. Any adjustment to your student account (increase and/or decrease) due to registration changes, changes in financial aid awards, assessment of late fees, fines or penalties, or any other transaction will be immediate and will be reflected (after 8:00 am on the following business day) in all remaining balances due, including unpaid payment plan installments. Your account can be reviewed at any time by accessing your online account via the ysu.edu/viewmybill link.

Students are solely responsible for timely payment of their tuition and fees. In the event that the account becomes past due, the University reserves the right to withhold services (e.g., transcripts, diplomas, registration, and other University services) until the past-due balance is paid in full. If full payment cannot be obtained, then the delinquent balance must be turned over to the Ohio Attorney General's Collection Enforcement Office for collection and it will be reported to the Credit Bureau. Once an account becomes delinquent, the student will be required to pay in advance of registering for at least one subsequent term. An account turned over to the Attorney General will incur interest and collection expenses which must be paid before any of the adverse sanctions can be removed.

Questions regarding billing and/or payment of fees should be directed to the Office of University Bursar at (330) 941-3133, or in person at Room 227, Meschel Hall. Any payments received via the online payment website will be applied to the oldest charges first. Please note that the University reserves the right to change any fee at any time, without notice, by action of the University Board of Trustees.

Payment of Tuition and Fees

Student accounts are billed each semester. Tuition statements are sent out electronically, and an e-mail is sent each time a bill is issued. Current account information – including charges, payments, and refund amounts – is available online at ysu.edu/viewmybill. Tuition statements may also be printed from this site.

Students are expected to have their student accounts in a paid status prior to attending the first class meeting for a term. In order to have a student account in a "paid status," students must be either paid in full for the term or officially signed up and paid the first payment on the approved payment plan. Payment plan enrollment is not available for the online RN-BSN program. Late and/or partial payments are subject to late payment fee assessment.

**YOU ARE STRONGLY ENCOURAGED TO PAY YOUR BILL ONLINE AT YSU.EDU/VIEWMYBILL.**

You may also make payment:

* in person at the payment windows on the second floor of Meshel Hall. **Cashier Hours are Monday through Friday 10:00 a.m. - 2:00 p.m. or**

* via the payment drop box also located on the second floor of Meshel Hall (check only, no cash) or

* by mail to: Youngstown State University. Attention Office of University Bursar, One University Plaza, Youngstown, OH 44555 (check only, please do not mail cash). Please make checks payable to Youngstown State University.

You may pay online by echeck (no additional charge) or with Visa, MasterCard, or Discover. There is a 2.85% convenience fee, minimum of $3.00, for payments made by credit card.

If you deliver a check in person, mail it, or place it in the payment drop box, you authorize us to convert that check to an electronic Automated Clearing House (ACH) transaction. That check will then appear on your monthly bank statement as an Electronic Debit. If you do not wish to have your paper check converted to an ACH, you must present it in person or select an alternative payment method (for instance, credit card).

A payment plan is also available that will allow you to spread your payments out over a longer period. Payment plan enrollment must be processed online and requires an initial payment at the time of enrollment. There is a fee for enrollment in the payment plan, and late payments are subject to late payment fee assessment. Payment plan enrollment is not available for the online RN-BSN program.

**Penguin Tuition Promise**

The YSU Penguin Tuition Promise is a cohort-based, level-rate tuition, room and board, and fee guarantee model that assures a student and his/her family a set of fixed rates for the pursuit of an undergraduate degree at Youngstown State University. The Penguin Tuition Promise is designed to make the cost of college predictable and affordable. Beginning with the 2018-2019 academic year, every new first-year, transfer, or re-admitted degree-seeking undergraduate student will be part of the Penguin Tuition Promise. For additional information visit the YSU Penguin Tuition Promise (https://ysu.edu/ysu-penguin-tuition-promise/) page.

Tuition and fees are assessed based on the number of credit hours of enrollment, residency, course, and/or program. The Board of Trustees of Youngstown State University has pledged to make every effort to keep the required fees as low as is consistent with providing quality education. It is intended that fees not be adjusted more often than annually and that fee changes be announced in the spring or early summer. The Board of Trustees does, however, reserve the right to change any fee, charge, or fine without notice if conditions warrant.

**Penguin Tuition Promise Description of Fees**

The Board of Trustees of Youngstown State University has pledged to make every effort to keep the required fees as low as is consistent with providing quality education. It is intended that fees not be adjusted more often than annually and that fee changes be announced in the spring or early summer. The Board of Trustees does, however, reserve the right to change any fee, charge, or fine without notice if conditions warrant.

**Fees**

**INSTRUCTIONAL FEE**

This fee is assessed to all penguin tuition promise students each term. This fee supplements the state subsidy and is a source of revenue for the University's educational and general fund.
GENERAL FEE
This fee is for non-instructional services such as Kilcawley Center, intercollegiate athletics, intramural sports, performing artists and lecture programs, and student government.

non-resident surcharge
Those students who are not legal residents of Ohio must pay a surcharge in addition to tuition.

AUDITED COURSES
Students may audit courses (i.e., register to take a course without receiving credit). The fee for auditing a course is the same as if the course were taken for credit.

COLLEGE FEE
This fee is designed to recognize the differential cost of instruction among colleges. Examples of use include research instrumentation, enhanced teaching equipment, specialized software, specialized information resources (databases), maintenance and repair of capital equipment, technical and laboratory personnel support, and lab and instructional space upgrades.

COURSE BOOK AND SUPPLY FEE
This fee represents the cost for electronic materials such as eBooks that are used in designated course(s). This fee is non-refundable after the 100% tuition refund period and cannot be appealed.

COURSE FEE
This fee is designed to partially offset expenses associated with courses that make use of supplies, equipment or personnel support beyond that associated with typical lecture courses. Examples include chemical supplies, engineering equipment, computers, software, and lab monitors. In addition, the Student Success Course Fee is designed to partially offset expenses associated with Campus Sexual Violence Elimination (SaVe) Act training, Financial Aid materials and training sessions with Financial Aid, content and programming for a common intellectual experience including speakers and campus-wide events, other materials, handouts, and software related to common elements of first-year experience courses.

CREDIT BY EXAMINATION FEE
A fee is charged for each course for an individual examination provided by an academic department to determine whether a student can be given academic credit for his or her knowledge of the course material. The fee must be paid before the test can be taken. This fee is charged on a per-credit basis.

DISTANCE EDUCATION LEARNING FEES
This fee is to offset the cost of technology and support needed to support online courses and programs.

Graduation Fee
This nonrefundable fee is assessed when students apply to graduate to cover costs associated with graduation. If a student defers graduation and has paid the fee, the payment remains valid for the two academic terms following the term of application. Should a student graduate with more than one degree at a time, the fee will only be charged once.

HONORS COLLEGE FEE
This fee supports student learning objectives within the five pillars of the Honors College. Some of the programs and activities supported by this fee are the Honors College Retreat, Academic Journal, student research, student presentations, annual showcase, and volunteer and community service projects. Additionally, the fee serves as a source to staff programs and equip buildings with technology to foster and support educational development and student success.

INTERNATIONAL STUDENT CREDENTIAL EVALUATION FEE
The International Programs Office (IPO) is responsible for evaluating credentials from applicants earned at foreign high schools and universities. This fee supports the evaluation of those credentials including professional development of staff in this area. Each graduate applicant who submits credentials to be evaluated by IPO staff will be assessed this fee.

INTERNATIONAL STUDENT HEALTH INSURANCE FEE
Per YSU policy, all international students who attend YSU on an F-1 or J-1 visa and who are not sponsored by a government-related organization, are required to purchase Health Insurance. International students will be assessed this fee on their student account. YSU transfers the fee to the insurance company to provide health insurance for the individual student. The rates are set by the insurer; therefore the fee is variable and may change from year-to-year.

INTERNATIONAL STUDENT PROGRAM FEE
The International Programs Office (IPO) is responsible for providing pre-admission advising and a wide array of student services unique to the international student population. This fee will support expenses related to pre-admission advising including technology support, travel, mailing and related expenses and international student services including providing appropriate academic advising to applicants, supporting immigration advising, supporting staff professional development related to immigration regulations and admission, and providing a range of general student support services including orientation, airport pickup and international activities. Each international student who is classified as either an undergraduate or graduate student will be assessed this fee with the exception of online and distance learning programs.

LATE APPLICATION FOR GRADUATION
Application for Graduation must be submitted within the first three weeks of the term. Applications submitted after this date will be assessed a non-refundable late fee.

LATE PAYMENT FEES
Payment of a bill received after the due date results in assessment of a late payment fee. All fees and charges billed must be paid in full. Partial payments will result in assessment of a late fee. Payment plan participants who do not pay their scheduled payment amount by the due date are also subject to assessment of a late payment fee.

NCAA PERMISSIBLE EXPENSES
This fee is for approved NCAA expenses such as meals incidental to participation, approved housing costs and fees, missed appointment charges, and other NCAA approved costs or charges.

PARKING PERMIT (OPTIONAL)
This fee is optional each term for penguin tuition promise students and will also allow the student to have unlimited access to shuttle service. The Daytime parking permit will grant access to approved lots from 7:00 a.m. to 11:00 p.m. The Overnight parking permit will grant access to approved lots without any time restrictions. This fee is charged, upon request of the parking permit via Penguin Portal. The fee supports the operating and maintenance costs of campus parking facilities, roadways and sidewalks, as well as student shuttle service. The fee does not guarantee an available space in any particular lot. Some facilities are restricted (e.g. for students only, for faculty and staff only, or overnight parking only). The current Driving and Parking Regulations pamphlet and parking lot map should be consulted. The fee is refundable only if the student returns the parking permit access card and validation sticker within five days of either the withdrawal date or the last date of the 100% tuition refund period, whichever is earlier. This fee is non-refundable after the 100% tuition refund period and cannot be appealed.
A daily fee is charged anyone without a permit who wishes to park in facilities designated for cash business.

**PERFORMANCE MUSIC FEE**
This fee offsets the cost of maintaining the programs and facilities of the Dana School of Music including the purchase and repair of equipment, rental of performance venues, recording and archiving of Dana events, and other expenses. The performance fee helps us provide the best possible experience for our students and follow standards set by the National Association of Schools of Music. This program fee is charged in addition to regular tuition. It is assessed students taking music lessons and is applied on a per-credit basis.

**PROFICIENCY EXAMINATION FEE**
A fee is charged for an examination provided by an academic department to determine a student's proficiency for some reason other than assignment of academic credit. If academic credit is to be awarded, the credit by examination fee applies and not this fee.

**STUDIO ART FEE**
This fee enables the Department of Art to strategically plan for essential equipment upgrades and investment in new technologies that drive development and implementation of innovative curriculum including the purpose of large and costly equipment and digital technologies. As new processes and directions emerge in contemporary art, the Department of Art must introduce new and innovative instructional art making options into the curriculum to remain enrollment competitive with regional and national peer institutions.

**TESTING FEES**
The University Office of Testing supervises a variety of special tests used for admission to college, graduate, or professional schools. The fees are established by the agencies responsible for the tests. Students are advised to contact the Testing Office for information and to make reservations.

**Service Charges**

**COMPUTER-BASED PLACEMENT RE-TEST FEE**
A nonrefundable fee is charged each time a computer-based placement test is retaken.

**DATA RECOVERY SERVICE FEE**
Fee assessed to recover data and/or transfer data that was successfully recovered onto a media device provided by the students (i.e. flash drive, hard drive, or DVD). No fee assessed unless some or all of the data is recovered. Note: If it is necessary to remove the hard drive from the PC in order to recover data, the IT Service Desk will NOT be able to perform the service, and no fee will be charged to the student.

**HEALTH CENTER FEE**
Mercy Health Wick Primary Care at YSU is located on the corner of Wick and Lincoln Avenue. The Center provides health care to all currently enrolled YSU students — both resident and commuter students. These services are provided because of the Health Center Fee that is paid by all students each semester. The mandatory fee provides revenue to Mercy Health System to give student access to their Primary Care Facility. The center will be staffed by a full-time primary care physician and advanced practice provider. It will also provide the following services below:

- Full service primary care practice
  - Establish and develop continuity of care
  - Address acute issues
  - Walk-In Care location for non-scheduled visits
  - Preventative care
- Mental health services
  - Mental health, behavioral health and addiction issues addressed
  - Two half-days per week
  - Psychiatrist

Health care is available for illness, injury, first aid, and routine health checks. Health screening tests, physical exams for sports and academic programs, gynecological exams, as well as consultations and referrals, are provided. Flu and other immunizations are also given; however, there are charges for these injections.

Office visits are free. Students do not need to have health insurance to use the Center’s services. Blood tests, x-rays, lab tests, etc., ordered by a physician are done off campus at the student's choice of provider and at the student's expense.

Student records are kept strictly confidential. Information cannot be released to anyone without the written consent of the student. Certain public health diseases, however, must be reported to the Department of Health as required by law.

For more information, visit Student Health Clinic (https://urldefense.proofpoint.com/v2/url?u=https-3A__na01.safelinks.protection.outlook.com_-3Furl-3Dhttp-253A-252F-252Fcc.ysu.edu-252Fstudent-2Dservices-252Fhealth ... g8FKZtZW4wKWQUB2EAdNoMAtUf5qc4dhroQVcs-253D-26reserved-3D0&d=DwMGaQ&c=0W9Vy5nnhl9u_frqx4vrzKSNz08jjO3fIve6wVqRTVo&r=Rw57s-)

**HOUSING CHARGES**
On-campus housing is available for students year-round. The academic year contract covers room, board, and basic meal plan costs for both fall and spring semesters, as well as University breaks during both semesters (not including the break between semesters). Students may also apply separately for on-campus housing for summer terms. Charges are billed each semester. All payment dates and cancellation fees are outlined in the housing contract, which is included in full in the housing application and on the housing website. Please note that there is a housing application fee, as well as a housing prepayment, which will reserve the student a space. Students who are living off-campus may also choose to buy a meal plan at the Penguin Crossing in Kilcawley Center.

**IDENTIFICATION CARD REPLACEMENT CHARGE**
A nonrefundable charge is made for replacement of an ID card.

**INTERNATIONAL STUDENT ACTIVITIES FEE**
The International Programs Office (IPO) arranges social and cultural activities of cross-cultural nature. IPO may charge a nominal fee in order to defray the cost of such activities.

**INTERNATIONAL STUDENT STORAGE FEE**
The International Programs Office (IPO) arranges for international students to have access to secure storage for their belongings over the summer break. International students who wish to store their belongings are assessed this fee per box.

**INTERNATIONAL STUDENT TRANSPORTATION FEE**
The International Programs Office (IPO) arranges transportation at the end of each semester to the airport. Students who wish to reserve a space on the airport shuttle are assessed this fee. The intent of this fee is to defray the costs associated with providing transportation services.
PAYMENT PLAN ENROLLMENT FEE
A nonrefundable fee is charged for enrollment in the payment plan. All tuition and fees are due in full by the payment due date unless the student enrolls in the payment plan.

PC REMEDIATION SERVICE FEE
Fee assessed for removal of all spyware and viruses from the PC and for installing the most current updates to applications and the operating system to help reduce the risk of future attacks. The first two PC remediation services are provided free of charge to current YSU students; the fee only applies to remediation performed beyond the first two free services.

PHYSICAL EDUCATION ACTIVITY CHARGE
Certain activity courses (e.g. bowling, skiing, ice skating, scuba diving) are available only upon the payment of a charge sufficient to cover the cost of the facility or transportation. These charges are set by the operator of the facility, are paid by the student to that operator (not to the University), and are in addition to any other applicable fee.

PLACEMENT & SUPERVISION FEE FOR OVERSEAS STUDENT TEACHING
Through the Consortium for Overseas Student Teaching (COST), teacher candidates are placed in public and private institutions in various locations around the world where English is the language of instruction. YSU students who student teach overseas through COST will be charged a placement and supervision fee. The fee is established by COST and the entire amount is paid to them for the administration of the program. The fee amount varies and may be higher in some overseas sites.

RETURNED CHECK, ACH (ELECTRONIC CHECK), OR CREDIT CARD CHARGE
A charge is levied on anyone whose check, ACH, or charge is returned unpaid by the bank. If any late payment results therefrom, the applicable fee is also assessed. Failure to pay billing of return check, ACH, and/or charge within six days; and/or a second check, ACH, or charge return will result in the University not accepting this type of payment at any of its collection points and may subject the student to financial suspension for the term.

STUDENT LOCKER RENTAL
A limited number of lockers are available in various buildings for the convenience of commuting students. Locker payments and assignments are made in Kilcawley Center at the Penguin Xing.

TECHNOLOGY LOANER EQUIPMENT FEE
A non-refundable fee that covers the cleaning, updates and maintenance of the YSU loaner devices.

TRANSCRIPT OF CREDITS CHARGE
There is a charge for normal transcript processing requests as well as rush or overnight express requests issued by the Office of Records. Transcripts will not be issued for anyone with outstanding debts owed to the University.

Fines
LIBRARY FINES
Fines are assessed for failure to return books on time as stipulated or for the unauthorized removal of a reserved book. Willful damage or defacement of library materials or other property is a violation of state law and is punished as such.

PARKING VIOLATION FINE
Parking without a permit, parking in unauthorized areas and other offenses as identified in the Parking Regulations brochure will result in the issuance of a citation against the vehicle and its owner, or against the student responsible for the vehicle (e.g., a student driving a parent’s car). Payment of a fine removes the citation. In certain cases, vehicles may be towed. See the regulations (https://cms.ysu.edu/administrative-offices/parking-services/rules-regulations/) for detailed information.

STUDENT CODE OF CONDUCT VIOLATION
Fines may be assessed to students who have violated The Student Code of Conduct. These fines can be assessed by the Student Conduct Administrator or the Student Conduct Board after a disciplinary hearing. For additional information regarding student conduct fines, please contact the Student Conduct office at 330-941-4704.

Penguin Tuition Promise Rates
Student Fees and Charges
Effective Summer 2021

TUITION

<table>
<thead>
<tr>
<th>INSTRUCTIONAL FEE</th>
<th>Undergraduate Penguin Promise Tuition - FY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2021 Cohort 4</td>
<td></td>
</tr>
<tr>
<td>1 to 11 credits</td>
<td>$320.09 per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$3,841.08 per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$320.09 per credit hour</td>
</tr>
<tr>
<td></td>
<td>Undergraduate Penguin Promise Tuition - FY</td>
</tr>
<tr>
<td>2020 Cohort 2</td>
<td></td>
</tr>
<tr>
<td>1 to 11 credits</td>
<td>$308.37 per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$3,700.44 per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$308.37 per credit hour</td>
</tr>
<tr>
<td></td>
<td>Undergraduate Penguin Promise Tuition - FY</td>
</tr>
<tr>
<td>2019 Cohort 1</td>
<td></td>
</tr>
<tr>
<td>1 to 11 credits</td>
<td>$296.22 per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$3,554.64 per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$296.22 per credit hour</td>
</tr>
<tr>
<td></td>
<td>Undergraduate Penguin Promise Tuition - FY</td>
</tr>
<tr>
<td>2018 Cohort 3</td>
<td></td>
</tr>
<tr>
<td>1 to 11 credits</td>
<td>$286.20 per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$3,434.40 per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$286.20 per credit hour</td>
</tr>
<tr>
<td></td>
<td>Undergraduate Online Programs (not eligible for payment plan enrollment)</td>
</tr>
<tr>
<td>RN-BSN</td>
<td>$315.00 per credit hour</td>
</tr>
</tbody>
</table>

GENERAL FEE
Note: Does not apply to Online Programs

<table>
<thead>
<tr>
<th>UNDERGRADUATE PENGUIN PROMISE TUITION - FY 2022 COHORT 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
</tr>
<tr>
<td>12 to 18 credits</td>
</tr>
<tr>
<td>Over 18 credits</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNDERGRADUATE PENGUIN PROMISE TUITION - FY 2021 COHORT 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
</tr>
<tr>
<td>12 to 18 credits</td>
</tr>
<tr>
<td>Over 18 credits</td>
</tr>
</tbody>
</table>
## Penguin Tuition Promise Rates

### Undergraduate Penguin Promise Tuition - FY 2020 Cohort 2

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Tuition Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$87.56</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$1,050.72</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$87.56</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

### Undergraduate Penguin Promise Tuition - FY 2019 Cohort 1

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Tuition Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$84.60</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$1,015.19</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$84.60</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

### Affordable Tuition Advantage non-resident Surcharge
Those students who are not legal residents of Ohio must pay a surcharge in addition to tuition.

Note: Does not apply to RN-BSN Online Program.

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Surcharge Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$15.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$180.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$15.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

### Non-Resident Surcharge
Note: Applies to RN-BSN Online Program only.

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Surcharge Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$5.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$60.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$5.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

### College Fees

#### Beeghly College of Liberal Arts, Social Sciences, and Education (Junior and above)

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$8.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$96.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$8.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

#### Bitonti College of Health & Human Services (Junior and above)

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$12.50</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$150.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$12.50</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

#### College of Creative Arts & Communications (all undergraduates)

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$9.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$108.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$9.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

#### College of Science, Technology, Engineering & Mathematics (Junior and above)

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$25.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$300.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$25.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

#### Williamson College of Business Administration (all undergraduates)

<table>
<thead>
<tr>
<th>Credits Range</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$20.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$240.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$20.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

### College Credit Plus Instructional Fee
(High School Students Participating in State of Ohio College Credit Plus Program)

Note: General and Informational Services Fees are waived.

<table>
<thead>
<tr>
<th>Instructor Type</th>
<th>Surcharge Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taught by the High School teacher at student’s high school</td>
<td>$41.64</td>
<td>per credit hour</td>
</tr>
<tr>
<td>Taught by YSU Instructor at High School</td>
<td>$83.28</td>
<td>per credit hour</td>
</tr>
<tr>
<td>Taught by YSU Instructor online/campus</td>
<td>$166.55</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

### Housing Charges

<table>
<thead>
<tr>
<th>Housing Type</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room &amp; Board (per academic year) FY2021 Cohort</td>
<td>$9,775.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room</td>
<td>$5,730.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Board (12 meals plan)</td>
<td>$4,045.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room &amp; Board (per academic year) FY2020 Cohort</td>
<td>$9,700.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room</td>
<td>$5,655.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Board (12 meals plan)</td>
<td>$4,045.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room &amp; Board (per academic year) FY2019 Cohort</td>
<td>$9,700.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room</td>
<td>$5,655.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Board (12 meals plan)</td>
<td>$4,045.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room &amp; Board (per academic year) FY2018 Cohort</td>
<td>$9,400.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Room</td>
<td>$5,355.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Board (12 or 8 meal plans)</td>
<td>$4,045.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Residence Hall Application Fee (academic year and/or summer)</td>
<td>$35.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Housing Reservation / Pre-Payment</td>
<td>$250.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Single Room Upcharge (per semester)</td>
<td>$1,440.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Reduced COVID Rate - Single Room Upcharge (per semester)</td>
<td>$500.00</td>
<td>per semester</td>
</tr>
</tbody>
</table>

#### Weller House

<table>
<thead>
<tr>
<th>Apartment Type</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small one-bedroom apartment (per month, room only)</td>
<td>$600.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Large one-bedroom apartment (per month, room only)</td>
<td>$650.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Small two-bedroom apartment (per month, room only)</td>
<td>$750.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Large two-bedroom apartment (per month, room only)</td>
<td>$800.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Three-bedroom apartment (per month, room only)</td>
<td>$900.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Expanded Housing Rate (over-occupied rooms)</td>
<td>$4,100.00</td>
<td>per semester</td>
</tr>
</tbody>
</table>

#### Student Housing During Academic Breaks

<table>
<thead>
<tr>
<th>Break Type</th>
<th>Fee Rate</th>
<th>Fee Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nightly room rate (per day, no meals)</td>
<td>$27.00</td>
<td>per semester</td>
</tr>
<tr>
<td>Flat fee room rate for winter break (no meals)</td>
<td>$250.00</td>
<td>per semester</td>
</tr>
</tbody>
</table>

### Cancellation Fee
**Before April 1 (academic year) or December 15 (spring only)** $0.00

**After April 1 and before June 15 (academic year)** $250.00

**After June 15 and before August 1 (academic year) or after December 15 and before January move-in day (spring only)** $300.00

**After August 1 and before August move-in day (academic year/fall only)** $350.00

**Summer**
- **Summer Room and Board (meals included)** $340.00 per week

**Summer Event Housing Rates**
- **Rooms with community bathrooms** $40.00 per night, per room
- **Rooms with private or semi-private bathrooms** $60.00 per night, per room

**Apartment-style housing (weekly rates only)**
- **One-bedroom apartment** $150.00
- **Two-bedroom apartment** $200.00
- **Three-bedroom apartment** $225.00
- **Linens (for rent, per set)** $25.00
- **Bed adjustment fee (per bed)** $10.00
- **Additional staffing (for groups with minors, or at request by group)** $120.00 per night/desk
- **Late check-in or check-out fee (price per hour beyond pre-arranged check-in or check-out time)** $50.00 per hour

**Courtyard Apartments** (room only, per person)
- **1 bed/1 bath** $835.00 per month
- **2 bed/2 bath** $710.00 per month
- **4 bed/2 bath** $620.00 per month

**Annual 12-Month Lease Rates**
- **1 bed/1 bath room** $10,020.00
- **2 bed/2 bath room** $8,520.00
- **4 bed/2 bath room** $7,440.00

**VOLUNTARY BOARD PLAN (STUDENTS NOT IN UNIVERSITY HOUSING) PLEASE GO TO Y Card Portal (https://ycard.ysu.edu) OR CALL PENGUIN XING AT EXT. 3516.**

*Room and board amount shown here is based on Bronze-level meal plan selections. Rates are for Kilcawley, Wick, Lyden, and Cafaro houses.

**Effective FY18, Weller House converted to graduate and family housing, and rates charged per apartment instead of per bed.**

### SPECIAL-PURPOSE FEES

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT Test Fee</td>
<td>$55.00</td>
</tr>
<tr>
<td>Art Usage Fee</td>
<td>$29.00 per course</td>
</tr>
<tr>
<td>Career Service Fee - Level 1 - Freshman and Sophomore</td>
<td>$1.75 per credit hour</td>
</tr>
<tr>
<td>Career Service Fee - Level 2 - Junior and Senior</td>
<td>$2.75 per credit hour</td>
</tr>
<tr>
<td>College Level Examination Program Test Fee (CLEP)</td>
<td>$25.00</td>
</tr>
<tr>
<td>College over 60 Registration fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>Course Book, ebook, and instructional supplies</td>
<td>Variable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level</th>
<th>Course Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$35.00 per course</td>
</tr>
<tr>
<td>2</td>
<td>$50.00 per course</td>
</tr>
<tr>
<td>3</td>
<td>$65.00 per course</td>
</tr>
<tr>
<td>4</td>
<td>$300.00 per course</td>
</tr>
<tr>
<td>7</td>
<td>$20.00 per course</td>
</tr>
<tr>
<td>8</td>
<td>$85.00 per course</td>
</tr>
<tr>
<td>9</td>
<td>$25.00 per course</td>
</tr>
<tr>
<td>10</td>
<td>$200.00 per course</td>
</tr>
<tr>
<td>11</td>
<td>$350.00 per course</td>
</tr>
<tr>
<td>12</td>
<td>$300.00 per course</td>
</tr>
<tr>
<td>13</td>
<td>$100.00 per course</td>
</tr>
<tr>
<td>Credit by Examination(^1)</td>
<td>$20.00 per credit hour</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred Payment fee (employer paid only)</td>
<td>$50.00</td>
</tr>
<tr>
<td>Equipment Materials &amp; Damage Replacement Fee</td>
<td>Replacement value</td>
</tr>
<tr>
<td>Federal Background Check</td>
<td>$28.00</td>
</tr>
<tr>
<td>Graduate Accelerated Program Fee</td>
<td>$50.00</td>
</tr>
<tr>
<td>Graduation Fee</td>
<td>$65.00</td>
</tr>
<tr>
<td>Graduation Fee Late Application (after 3rd wk. of term)</td>
<td>$38.50</td>
</tr>
<tr>
<td>Health Center Fee</td>
<td>$34.00 per semester</td>
</tr>
<tr>
<td>Honors College Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Installation Payment Plan Enrollment Fee</td>
<td>$50.00 per semester maximum</td>
</tr>
<tr>
<td>Internal Revenue Service/1098T penalty for incorrect name/SSN match</td>
<td>$100.00</td>
</tr>
<tr>
<td>International Student Activities Fee</td>
<td>Variable</td>
</tr>
<tr>
<td>International Student Health Insurance pass-thru charge, set by Ins. Carrier</td>
<td>Variable</td>
</tr>
<tr>
<td>International Student Program Fee (not assessed to online and distance learning programs)</td>
<td>$75.00 per semester</td>
</tr>
<tr>
<td>International Student Storage Fee</td>
<td>$5.00</td>
</tr>
<tr>
<td>International Student Transportation Fee</td>
<td>$40.00</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>$50.00 per month</td>
</tr>
<tr>
<td>MAT Test</td>
<td>$90.00</td>
</tr>
<tr>
<td>NCAA Permissible Expenses</td>
<td>Variable</td>
</tr>
<tr>
<td>Ohio Attorney General Payment/Collection Fee</td>
<td>Variable</td>
</tr>
<tr>
<td>Parking - see below</td>
<td></td>
</tr>
<tr>
<td>Peace Officer Training Academy Fee</td>
<td>$300.00 per semester</td>
</tr>
<tr>
<td>Performance Music Fee</td>
<td>$75.00 per credit</td>
</tr>
<tr>
<td>Placement &amp; Supervision for Overseas Student Teaching</td>
<td>Variable</td>
</tr>
<tr>
<td>Proficiency Examination(^2)</td>
<td>$45.00 per course</td>
</tr>
<tr>
<td>Student Locker Rental</td>
<td>$25.00 per year</td>
</tr>
<tr>
<td>Student Success</td>
<td>$35.00</td>
</tr>
<tr>
<td>Study Abroad Fee - Faculty Led</td>
<td>Variable - based on actual travel costs</td>
</tr>
<tr>
<td>Study Abroad Fee - Individual</td>
<td>$75.00</td>
</tr>
<tr>
<td>Transportation Fee, Fall &amp; Spring Terms (Required 6 plus credit hours listed on campus courses)</td>
<td>$115.00 per semester</td>
</tr>
<tr>
<td>Transportation Fee, Summer Term (Required for 6 plus credit hours listed on campus courses)</td>
<td>$58.00 per semester</td>
</tr>
</tbody>
</table>

\(^1\) Rates charged per apartment instead of per bed.

\(^2\) Effective FY18, Weller House converted to graduate and family housing, and rates charged per apartment instead of per bed.
Undergraduate Application Fee (first time applicant) $45.00
Web-Based Course Fee $100.00 per course

1 Credit awarded for courses based upon the successful completion of a test administered by an academic department at YSU. The course title appears on the transcript but no grade is listed.

2 A course or courses may be waived based on the performance on an examination. No academic credit is given and the course is not listed in the transcript.

SERVICE CHARGES
Check Replacement Fee $25.00
Child Preschool Laboratory Fee $150.00 per semester
Computer-Based Placement Re-Test $20.00 per test
Credit Card Convenience Fee (student accounts only) 2.85% minimum of $3.00
Duplicate Diploma Fee $40.00
Finger Printing Fee $37.00 per occurrence
Human Performance and Exercise Science Activity Variable to cover cost in that course
Intramural Team Deposit $10.00 per team
PC Data Recovery Service Fee $100.00 per occurrence
PC Remediation Service Fee (if 3 or more occurrences per academic year) $75.00
Photo I.D. Replacement Charge $25.00
Reading Tutoring Fee $38.00 per semester
Returned Check or Credit Card Charge $2.85% minimum of $3.00
Rich Autism Center Pre-School Programs $125.00 per week
Student Health Insurance Go To: http://cms.ysu.edu/administrative-offices/student-health/student-health/
Technology Loaner Equipment Fee $50.00 per semester
Transcript Fee $6.00
Transcript Rush Fee (same day processing, US mail or in person) $12.00
Transcript Rush Fee (overnight express) $35.00

PARKING
Control Card Replacement $5.00
Parking per day without permit $5.00
Parking per week without permit $18.00
Parking Permit (commuter) – Students, Fall & Spring - Optional $45.00
Parking Permit (overnight) – Students, Fall & Spring - Optional $90.00

Parking Violations/Fines:
Class 1 – Minor violations
1st offense $25.00
2nd offense $30.00
3rd offense $35.00

Class 2 – Major violations
Class 3 – Legal violations $250.00

For more information, consult Parking Violations Information (https://cms.ysu.edu/administrative-offices/parking-services/parking-violations/).

MAGG LIBRARY & CURRICULUM RESOURCE CENTER FINES & FEES

Library Material Replacement Fee Market Value
Library Study Carrel Rental $25.00
OhioLink Material Replacement Fee $110.00
Overdue Closed Reserve Material Daily Rental (per day) $0.55
Overdue Closed Reserve Material Hourly Rental (per hour) $0.55
Overdue InterLibrary Material (per day) $0.05
Overdue Maag/Depository Material (per day) $0.10
Overdue OhioLINK Material (per day) $0.50
Replacement Processing Fee $10.00
SearchOhio (OhioLINK partner) $0.50
Overdue fine (per day) $25.00
SearchOhio (OhioLINK partner) Material Replacement Fee $25.00

For further Circulation policy details, visit MAAG Circulation Policy (http://maag.ysu.edu/).

STUDENT FINES FOR VIOLATIONS OF THE STUDENT CODE OF CONDUCT

Alcohol abuse violations:
First offense $75.00
Second offense $125.00
Third offense $175.00

Drug/controlled substance abuse violations:
First offense $100.00
Second offense $150.00
Third offense $250.00

Failure to attend conduct hearing $25.00
Failure to complete disciplinary action $25.00
Restitution for lost/stolen/damaged property $50.00

Violation for drug sales or distribution $250.00
Violation for theft $150.00
Violation for violent or threatening behavior $150.00
Violation for weapons $150.00

Violations - Other up to $250.00

THE UNIVERSITY RESERVES THE RIGHT TO CHANGE ANY FEE WITHOUT NOTICE. PLEASE CHECK CAMPUS ANNOUNCEMENTS AND REVIEW CAMPUS WEBSITES FOR FEE CHANGES OR UPDATES. YOUR MYYSU EMAIL ACCOUNT IS THE FORMAL MEANS OF COMMUNICATION.

Non-Tuition Promise

Tuition and fees are assessed based upon the number of credit hours of enrollment, residency, course, and/or program. The Board of Trustees of Youngstown State University has pledged to make every effort to keep the required fees as low as is consistent with providing quality education. It is intended that fees not be adjusted more often than annually and that fee changes be announced in the spring or early summer. The Board of Trustees does, however, reserve the right to change any fee, charge, or fine without notice if conditions warrant.
Students should refer to Penguin Tuition Promise (p. 58) if they will be a new first-year, transfer, or re-admitted degree-seeking undergraduate after Spring 2018.

**Non-Tuition Promise Description of Fees**

The Board of Trustees of Youngstown State University has pledged to make every effort to keep the required fees as low as is consistent with providing quality education. It is intended that fees not be adjusted more often than annually and that fee changes be announced in the spring or early summer. The Board of Trustees does, however, reserve the right to change any fee, charge, or fine without notice if conditions warrant.

**Fees**

**INSTRUCTIONAL FEE**

This fee is assessed to all non-tuition promise students each term. This fee supplements the state subsidy and is a source of revenue for the University’s educational and general fund.

**GENERAL FEE**

This fee is for non-instructional services such as Kilcawley Center, intercollegiate athletics, intramural sports, performing artists and lecture programs, and student government.

**INFORMATION SERVICES FEE**

This fee is applied on a per-credit basis to provide information technology infrastructure and services across campus, including the new Student Information Systems, wireless connectivity, classroom technology, and a continuous strengthening and securing of the computing and networking environment. It provides support for technology enhancements and initiatives contained within the IT Master Plan, supporting the vision to keep pace with evolving, interactive, student-centered and collaborative electronic learning environment.

**NON-RESIDENT SURCHARGE**

Those students who are not legal residents of Ohio must pay a surcharge in addition to tuition.

**AUDITED COURSES**

Students may audit courses (i.e., register to take a course without receiving credit). The fee for auditing a course is the same as if the course were taken for credit.

**COLLEGE FEE**

This fee is designed to recognize the differential cost of instruction among colleges. Examples of use include research instrumentation, enhanced teaching equipment, specialized software, specialized information resources (databases), maintenance and repair of capital equipment, technical and laboratory personnel support, and lab and instructional space upgrades.

**COURSE BOOK AND SUPPLY FEE**

This fee represents the cost for electronic materials such as eBooks that are used in designated course(s). This fee is non-refundable after the 100% tuition refund period and cannot be appealed.

**COURSE FEES**

This fee is designed to partially offset expenses associated with courses that make use of supplies, equipment or personnel support beyond that associated with typical lecture courses. Examples include chemical supplies, engineering equipment, computers, software, and lab monitors. In addition, the Student Success Course Fee is designed to partially offset expenses associated with Campus Sexual Violence Elimination (SaVe) Act training, Financial Aid materials and training sessions with Financial Aid, Content and programming for a common intellectual experience including speakers and campus-wide events, Other materials, handouts, and software related to common elements of first year experience courses.

**CREDIT BY EXAMINATION FEE**

A fee is charged for each course for an individual examination provided by an academic department to determine whether a student can be given academic credit for his or her knowledge of the course material. The fee must be paid before the test can be taken. This fee is charged on a per-credit basis.

**DISTANCE EDUCATION LEARNING FEES**

This fee is to offset the cost of technology and support needed to support online courses and programs.

**GRADUATION FEE**

This nonrefundable fee is assessed when students apply to graduate to cover costs associated with graduation. If a student defers graduation and has paid the fee, the payment remains valid for the two academic terms following the term of application. Should a student graduate with more than one degree at a time, the fee will only be charged once.

**HONORS COLLEGE FEE**

This fee supports student learning objectives within the five pillars of the Honors College. Some of the programs and activities supported by this fee are the Honors College Retreat, Academic Journal, student research, student presentations, annual showcase, and volunteer and community service projects. Additionally, the fee serves as a source to staff programs and equip buildings with technology to foster and support educational development and student success.

**INTERNATIONAL STUDENT CREDENTIAL EVALUATION FEE**

The International Programs Office (IPO) is responsible for evaluating credentials from applicants earned at foreign high schools and universities. This fee supports the evaluation of those credentials including professional development of staff in this area. Each graduate applicant who submits credentials to be evaluated by IPO staff will be assessed this fee.

**INTERNATIONAL STUDENT HEALTH INSURANCE FEE**

Per YSU policy, all international students who attend YSU on an F-1 or J-1 visa and who are not sponsored by a government-related organization, are required to purchase Health Insurance. International students will be assessed this fee on their student account. YSU transfers the fee to the insurance company to provide health insurance for the individual student. The rates are set by the insurer; therefore the fee is variable and may change from year-to-year.

**INTERNATIONAL STUDENT PROGRAM FEE**

The International Programs Office (IPO) is responsible for providing pre-admission advising and a wide array of student services unique to the international student population. This fee will support expenses related to pre-admission advising including technology support, travel, mailing and related expenses and international student services including providing appropriate academic advising to applicants, supporting immigration advising, supporting staff professional development related to immigration regulations and admission, and providing a range of general student support services including orientation, airport pickup and international activities. Each international student who is classified as either an undergraduate or graduate student will be assessed this fee with the exception of online and distance learning programs.
LATE APPLICATION FOR GRADUATION
Application for Graduation must be submitted within the first three weeks of the term. Applications submitted after this date will be assessed a non-refundable late fee.

LATE PAYMENT FEES
Payment of a bill received after the due date results in assessment of a late payment fee. All fees and charges billed must be paid in full. Partial payments will result in assessment of a late fee. Payment plan participants who do not pay their scheduled payment amount by the due date are also subject to assessment of a late payment fee.

NCAA PERMISSIBLE EXPENSES
This fee is for approved NCAA expenses such as meals incidental to participation, approved housing costs and fees, missed appointment charges, and other NCAA approved costs or charges.

PARKING FEE (OPTIONAL)
This fee is optional each term for non-tuition promise students registered for less than six credit hours in courses designated as on-campus. This fee is charged, upon request of the parking permit via Penguin Portal – and will appear on students’ accounts as a “parking fee.” The “optional” fee and parking permit will also allow the student to have unlimited access to shuttle service. Students requesting the parking permit after the 14th day of the term will not have the permit issued or shuttle services made available until payment of the fee. The fee supports the operating and maintenance costs of campus parking facilities, roadways and sidewalks, as well as student shuttle service. The fee does not guarantee an available space in any particular lot. Some facilities are restricted (e.g. for students only, for faculty and staff only, or resident hall residents only). The current Driving and Parking Regulations pamphlet and parking lot map should be consulted. The fee is refundable only if the student returns the permit, validation sticker, and has less than six credit hours in courses designated as on-campus within five days of either the withdrawal date or the last date of the 100% tuition refund period, whichever is earlier. This fee is non-refundable after the 100% tuition refund period and cannot be appealed.

Service Charges

COMPUTER-BASED PLACEMENT RE-TEST FEE
A nonrefundable fee is charged each time a computer-based placement test is retaken.

DATA RECOVERY SERVICE FEE
Fee assessed to recover data and/or transfer data that was successfully recovered onto a media device provided by the student (i.e. flash drive, hard drive, or DVD). No fee assessed unless some or all of the data is recovered. Note: If it is necessary to remove the hard drive from the PC in order to recover data, the IT Service Desk will NOT be able to perform the service, and no fee will be charged to the student.

HEALTH CENTER FEE
Mercy Health Wick Primary Care at YSU is located on the corner of Wick and Lincoln Avenue. The Center provides health care to all currently enrolled YSU students – both resident and commuter students. These services are provided because of the Health Center Fee that is paid by all students each semester. The mandatory fee provides revenue to Mercy Health System to give student access to their Primary Care Facility. The center will be staffed by a full-time primary care physician and advanced practice provider. It will also provide the following services below:

- Full service primary care practice
  - Establish and develop continuity of care
  - Address acute issues
  - Walk-In Care location for non-scheduled visits
  - Preventative care
  - Extended hours
  - Lab draw site

- Mental health services
  - Mental health, behavioral health and addiction issues addressed
  - Two half-days per week
  - Psychiatrist

Health care is available for illness, injury, first aid, and routine health checks. Health screening tests, physical exams for sports and academic programs,
HOUSING CHARGES

On-campus housing is available for students year-round. The academic year contract covers room, board, and basic meal plan costs for both fall and spring semesters, as well as University breaks during both semesters (not including the break between semesters). Students may also apply separately for on-campus housing for summer terms. Charges are billed each semester. All payment dates and cancellation fees are outlined in the housing contract, which is included in full in the housing application and on the housing website. Please note that there is a housing application fee, as well as a housing prepayment, which will reserve the student a space. Students who are living off-campus may also choose to buy a meal plan at the Penguin Crossing in Kilcawley Center.

IDENTIFICATION CARD REPLACEMENT CHARGE

A nonrefundable charge is made for replacement of an ID card.

INTERNATIONAL STUDENT ACTIVITY FEES

The International Programs Office (IPO) arranges social and cultural activities of cross-cultural nature. IPO may charge a nominal fee in order to defray the cost of such activities.

INTERNATIONAL STUDENT STORAGE FEE

The International Programs Office (IPO) arranges for international students to have access to secure storage for their belongings over the summer break. International students who wish to store their belongings are assessed this fee per box.

INTERNATIONAL STUDENT TRANSPORTATION FEE

The International Programs Office (IPO) arranges transportation at the end of each semester to the airport. Students who wish to reserve a space on the airport shuttle are assessed this fee. The intent of this fee is to defray the costs associated with providing transportation services.

PAYMENT PLAN ENROLLMENT FEE

A nonrefundable fee is charged for enrollment in the payment plan. All tuition and fees are due in full by the payment due date unless the student enrolls in the payment plan.

PC REMEDIATION SERVICE FEE

Fee assessed for removal of all spyware and viruses from the PC and for installing the most current updates to applications and the operating system to help reduce the risk of future attacks. The first two PC remediation services are provided free of charge to current YSU students; the fee only applies to remediation performed beyond the first two free services.

PLACEMENT & SUPERVISION FEE FOR OVERSEAS STUDENT TEACHING

Through the Consortium for Overseas Student Teaching (COST), teacher candidates are placed in public and private institutions in various locations around the world where English is the language of instruction. YSU students who student teach overseas through COST will be charged a placement and supervision fee. The fee is established by COST and the entire amount is paid to them for the administration of the program. The fee amount varies and may be higher in some overseas sites.

PHYSICAL EDUCATION ACTIVITY CHARGE

Certain activity courses (e.g., bowling, skiing, ice skating, scuba diving) are available only upon the payment of a charge sufficient to cover the cost of the facility or transportation. These charges are set by the operator of the facility, are paid by the student to that operator (not to the University), and are in addition to any other applicable fee.

RETURNED CHECK, ACH (ELECTRONIC CHECK), OR CREDIT CARD CHARGE

A charge is levied on anyone whose check, ACH, or charge is returned unpaid by the bank. If any late payment results therefrom, the applicable fee is also assessed. Failure to pay billing of return check, ACH, and/or charge within six days; and/or a second check, ACH, or charge return will result in the University not accepting this type of payment at any of its collection points and may subject the student to financial suspension for the term.

STUDENT LOCKER RENTAL

A limited number of lockers are available in various buildings for the convenience of commuting students. Locker payments and assignments are made in Kilcawley Center at the Penguin Xing.

TECHNOLOGY LOANER EQUIPMENT FEE

A non-refundable fee that covers the cleaning, updates and maintenance of the YSU loaner devices.

TRANSCRIPT OF CREDITS CHARGE

There is a charge for normal transcript processing requests as well as rush or overnight express requests issued by the Office of Records. Transcripts will not be issued for anyone with outstanding debts owed to the University.

Fines

LIBRARY FINES

Fines are assessed for failure to return books on time as stipulated or for the unauthorized removal of a reserved book. Willful damage or defacement of library materials or other property is a violation of state law and is punished as such.

PARKING VIOLATION FINE

Parking without a permit, parking in unauthorized areas and other offenses as identified in the Parking Regulations brochure will result in the issuance of a citation against the vehicle and its owner, or against the student responsible for the vehicle (e.g., a student driving a parent's car). Payment of a fine removes the citation. In certain cases, vehicles may be towed. See the regulations (https://cms.ysu.edu/administrative-offices/parking-services/rules-regulations/) for detailed information.

STUDENT CODE OF CONDUCT VIOLATION

Fines may be assessed to students who have violated The Student Code of Conduct. These fines can be assessed by the Student Conduct Administrator or the Student Conduct Board after a disciplinary hearing. For additional information regarding student conduct fines, please contact the Student Conduct office at 330-941-4704.
# Non-Tuition Promise Rates

## Student Fees and Charges

Effective Fall 2021

(Instructional Fee, General Fee, and Information Services fees are required of all Non-Tuition Promise undergraduate students except where noted)

### TUITION

#### INSTRUCTIONAL FEE

**Undergraduate Non-Tuition Promise**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Instructional Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$286.53</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$3,438.36</td>
</tr>
<tr>
<td>Over 18</td>
<td>$286.53</td>
</tr>
</tbody>
</table>

**Undergraduate Online Programs** (not eligible for payment plan enrollment)

<table>
<thead>
<tr>
<th>Program</th>
<th>Instructional Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>RN-BSN</td>
<td>$315.00</td>
</tr>
</tbody>
</table>

### GENERAL FEE

Note: General fee does not apply to distance learning and online programs.

<table>
<thead>
<tr>
<th>Credits</th>
<th>General Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$60.46</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$725.52</td>
</tr>
<tr>
<td>Over 18</td>
<td>$60.46</td>
</tr>
</tbody>
</table>

### INFORMATION SERVICES FEE

Note: Does not apply to Online Programs.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Information Services Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$10.61</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$127.32</td>
</tr>
<tr>
<td>Over 18</td>
<td>$10.61</td>
</tr>
</tbody>
</table>

### AFFORDABLE TUITION ADVANTAGE NON-RESIDENT SURCHARGE

Those students who are not legal residents of Ohio must pay a surcharge in addition to tuition.

Note: Does not apply to RN-BSN Online Program.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Surcharge per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$15.00</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$180.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

### NON-RESIDENT SURCHARGE

Note: Applies to RN-BSN Online Program only.

<table>
<thead>
<tr>
<th>Credits</th>
<th>Surcharge per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$5.00</td>
</tr>
<tr>
<td>12-18</td>
<td>$60.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$5.00</td>
</tr>
</tbody>
</table>

### COLLEGE FEES

**BEECHLY COLLEGE OF LIBERAL ARTS, SOCIAL SCIENCES, AND EDUCATION (JUNIOR AND ABOVE)**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$8.00</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$96.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$8.00</td>
</tr>
</tbody>
</table>

**BITONTE COLLEGE OF HEALTH & HUMAN SERVICES (JUNIOR AND ABOVE)**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$12.50</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$150.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$12.50</td>
</tr>
</tbody>
</table>

**COLLEGE OF CREATIVE ARTS & COMMUNICATIONS (ALL UNDERGRADUATES)**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$9.00</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$108.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$9.00</td>
</tr>
</tbody>
</table>

**COLLEGE OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS (JUNIOR AND ABOVE)**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$25.00</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$300.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

**WILLIAMSON COLLEGE OF BUSINESS ADMINISTRATION (ALL UNDERGRADUATES)**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Fee per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11</td>
<td>$20.00</td>
</tr>
<tr>
<td>12 to 18</td>
<td>$240.00</td>
</tr>
<tr>
<td>Over 18</td>
<td>$20.00</td>
</tr>
</tbody>
</table>

### COLLEGE CREDIT PLUS INSTRUCTIONAL FEE

(High School Students Participating in State of Ohio College Credit Plus Program)

Note: General and Informational Services Fees are waived.

| Taught by the High School teacher at student's high school | $41.64 per credit hour |
| Taught by YSU Instructor at High School | $83.28 per credit hour |
| Taught by YSU Instructor online/campus | $166.55 per credit hour |

### HOUSING CHARGES

**Housing Charges**

| Room and Board (per academic year) | $9,400.00 (Payable as follows: $4,700.00 fall semester, and $4,700.00 spring semester) |
| Room | $5,355.00 |
| Board (12 or 8 meal plans) | $4,045.00 |
| Residence Hall Application Fee (academic year and/or summer) | $35.00 |
| Housing Reservation / Pre-payment Fee | $250.00 |
| Single Room Upcharge | $1,440.00 per semester |
| Reduced COVID Single Room Upcharge | $500.00 per semester |

**Weller House Apartments**

| Small one-bedroom apartment (per month, room only) | $600.00 |
| Large one-bedroom apartment (per month, room only) | $650.00 |
| Small two-bedroom (per month, room only) | $750.00 |
| Large two-bedroom apartment | $800.00 |
| Three bed-room apartment (per month, room only) | $900.00 |
| Expanded Housing Rate (over-occupied rooms) | $4,100.00 |
### Student Housing During Academic Breaks

- **Nightly room rate (per day, no meals)**: $27.00
- **Flat fee room rate for winter break (no meals)**: $250.00

#### Cancellation Fee
- Before April 1 (academic year) or December 15 (spring only): $0.00
- After April 1 and before June 15 (academic year): $250.00
- After June 15 and before August 1 (academic year) or after December 15 and before move in day (spring only): $300.00
- After August 1 and before move-in day (academic year): $350.00

#### Summer
- **Summer Room and Board**: $340.00 (per week, includes meals)

#### Summer Event Housing Rates
- **Room with community bathrooms (per night)**: $40.00
- **Rooms with private or semi-private bathrooms (per night)**: $60.00
- **Apartment-style housing (weekly rates only)**
  - **One-bedroom apartment**: $150.00
  - **Two-bedroom apartment**: $200.00
  - **Three-bedroom apartment**: $225.00
- **Linens (for rent, per set)**: $25.00
- **Bed adjustment fee (per bed)**: $10.00
- **Additional staffing (per night, all groups with minors, or as requested)**: $120.00
- **Late check-in or check-out fee (per hour)**: $50.00

#### Courtyard Apartments (room only, per person)
- **1 bed/1 bath**: $835.00 per month
- **2 bed/2 bath**: $710.00 per month
- **4 bed/2 bath**: $620.00 per month

#### Annual 12-Month Lease Rates
- **1 bed/1 bath room**: $10,020.00
- **2 bed/2 bath room**: $8,520.00
- **4 bed/2 bath room**: $7,440.00

### Voluntary Board Plan
- (students not in University housing) go to [https://ycard.ysu.edu](https://ycard.ysu.edu)

### Voluntary Board Plan (Students Not in University Housing) Please Go To Y Card Portal (https://ycard.ysu.edu) or Call Penguin Xing at Ext. 3516.

*Room and board amount shown here is based on Bronze-level meal plan selections. Rates are for Kilcawley, Wick, Lyden, and Cafaro houses.

**Effective FY18, Weller House converted to graduate and family housing, and rates charged per apartment instead of per bed.

### Special-Purpose Fees
- **ACT Test Fee**: $55.00
- **Art Usage Fee**: $29.00 per course
- **Career Service Fee - Level 1 - Freshman and Sophomore**: $1.75 per credit hour
- **Career Service Fee - Level 2 - Junior and Senior**: $2.75 per credit hour

### College Level Examination Program Test Fee (CLEP)
- **$25.00**

### Course Book, eBook, and instructional supplies
- **Variable**

### Course Fees
- **Level 1**: $35.00 per course
- **Level 2**: $50.00 per course
- **Level 3**: $65.00 per course
- **Level 4**: $300.00 per course
- **Level 7**: $20.00 per course
- **Level 8**: $85.00 per course
- **Level 9**: $25.00 per course
- **Level 10**: $200.00 per course
- **Level 11 (cooperative charge)**: $350.00 per course
- **Level 12**: $300.00 per course
- **Level 13**: $100.00 per course
- **Credit by Examination**: $20.00 per credit hour
- **Deferred Payment fee (employer paid only)**: $50.00
- **Equipment, Materials & Damage Replacement Fee**: Replacement value
- **Federal Background Check**: $28.00
- **Graduate Accelerated Program Fee**: $50.00
- **Graduation Fee**: $65.00
- **Graduation Fee Late Application (after 3rd wk. of term)**: $38.50
- **Health Center Fee**: $34.00 per semester
- **Installment Payment Plan Enrollment Fee**: $50.00 per semester maximum
- **Internal Revenue Service/1098T penalty for incorrect name/SSN match**: $100.00
- **International Student Activities Fee**: Variable
- **International Student Health Insurance pass-thru charge, set by Ins. Carrier**: Variable
- **International Student Program Fee**: $75.00 per semester
- **International Student Storage Fee**: $5.00
- **International Student Transportation Fee**: $40.00
- **Late Payment Fee**: $50.00 per month
- **MAT Test**: $90.00
- **NCAA Permissible Expenses**: Variable
- **Ohio Attorney General Payment/Collection Fee**: Variable
- **Placement & Supervision for Overseas Student Teaching**: Variable
- **Proficiency Examination**: $45.00 per course
- **Student Locker Rental**: $25.00 per year
- **Student Success**: $35.00
- **Study Abroad Fee - Faculty Led**: Variable - based on actual travel costs
- **Study Abroad Fee - Individual**: $75.00
- **Transportation Fee, Fall & Spring Terms (Required 6 plus credit hours listed in campus courses)**: $115.00 per semester

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**Voluntary Board Plan**

[YSU 2021-2022 Undergraduate Catalog](#)
Transportation Fee, Summer Term (Required for 6 plus credit hours listed on campus courses) $58.00 per semester
Undergraduate Application Fee $45.00
Web-Based Course Fee $100.00 per course
Youngstown Early College (per credit hour) $118.55

1 Credit awarded for courses based upon the successful completion of a test administered by an academic department at YSU. The course title appears on the transcript but no grade is listed.

2 A course or courses may be waived based on the performance on an examination. No academic credit is given and the course is not listed in the transcript.

SERVICE CHARGES
Check Replacement Fee $25.00
Child Preschool Laboratory Fee $150.00 per semester
Computer-Based Placement Re-Test $20.00 per test
Credit Card Convenience Fee (student accounts only) 2.85% minimum of $3.00
Duplicate Diploma Fee $40.00
Finger Printing Fee $37.00 per occurrence
Human Performance and Exercise Science Activity Variable to cover cost in that course
Intramural Team Deposit $10.00 per team
PC Data Recovery Service Fee $100.00 per occurrence
PC Remediation Service Fee (if 3 or more occurrences per academic year) $75.00
Photo I.D. Replacement Charge $25.00
Reading Tutoring Fee $38.00 per semester
Returned Check or Credit Card Charge $30.00
Rich Autism Center Pre-School Programs $125.00 per week
Technology Loaner Equipment Fee $50.00 per semester
Transcript Fee $6.00
Transcript Rush Fee (same day processing, US mail or in person) $12.00
Transcript Rush Fee (overnight express) $35.00

PARKING
Control Card Replacement $5.00
Parking per day without permit $5.00
Parking per week without permit $18.00
Parking Permit – Students, Fall & Spring (optional 0-5 credit hours) $115.00
Parking Permit – Students, Summer Term (optional 0-5 credit hours) $58.00
Parking Violations/Fines
Class 1 – Minor violations
1st offense $25.00
2nd offense $30.00
3rd offense $35.00

Class 2 – Major violations $100.00
Class 3 – Legal violations $250.00

For more information go to Parking Violations Information (https://cms.ysu.edu/administrative-offices/parking-services/parking-violations/).

MAGG LIBRARY & CURRICULUM RESOURCE CENTER FINES & FEES
Overdue charges and loan periods differ by type of materials:

Library Material Replacement Fee Market Value
Library Study Carrel Rental $25.00
OhioLink Material Replacement Fee $110.00
Overdue Closed Reserve Material Daily Rental (per day) $0.55
Overdue Closed Reserve Material Hourly Rental (per hour) $0.55
Overdue InterLibrary Material (per day) $0.05
Overdue Maag/Depository Material (per day) $0.10
Overdue OhioLINK Material (per day) $0.50
Replacement Processing Fee $10.00
SearchOhio (OhioLINK partner) $0.50
Overdue fine (per day) $0.05
SearchOhio (OhioLINK partner) Material Replacement Fee $25.00

For further Circulation policy details, visit MAAG Circulation Policy (http://maag.ysu.edu/).

STUDENT FINES FOR VIOLATIONS OF THE STUDENT CODE OF CONDUCT

Alcohol abuse violations:
First offense $75.00
Second offense $125.00
Third offense $175.00

Drug/controlled substance abuse violations:
First offense $100.00
Second offense $150.00
Third offense $250.00

Failure to attend conduct hearing $25.00
Failure to complete disciplinary action $25.00
Restitution for lost/stolen/damaged property $50.00

Violation for drug sales or distribution $250.00
Violation for theft $150.00
Violation for violent or threatening behavior $150.00
Violation for weapons $150.00
Violations - Other up to $250.00

THE UNIVERSITY RESERVES THE RIGHT TO CHANGE ANY FEE WITHOUT NOTICE. PLEASE CHECK CAMPUS ANNOUNCEMENTS AND REVIEW CAMPUS WEBSITES FOR FEE CHANGES OR UPDATES. YOUR MYYSU EMAIL ADDRESS IS THE FORMAL MEANS OF COMMUNICATION.

Reduction/Refund of Fee Charges Upon Withdrawal

To withdraw from a single course or from all courses (complete withdrawal), it is necessary to access the registration functions online via the Penguin Portal – Registration. It is the student’s responsibility to confirm that the withdrawal
was correctly processed and the course(s) is/are deleted. Nonattendance of class, or notification to the instructor or department, does not constitute official withdrawal.

If a student is permitted to withdraw from the University or if a student reduces his or her academic load, a refund of the tuition charge, and the nonresident tuition surcharge, where applicable, shall be made in conformity with the following schedule for regularly scheduled courses:

<table>
<thead>
<tr>
<th>Length of Course</th>
<th>100% Refund</th>
<th>No Reduction of Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>More than 8 weeks</td>
<td>Through 14th day of term</td>
<td>15th day of term and later</td>
</tr>
<tr>
<td>8 weeks or less</td>
<td>Through 7th day of term</td>
<td>8th day of term and later</td>
</tr>
</tbody>
</table>

Note: Because access to change of registration is now available online 24/7, every day of the week is counted (including weekends and holidays) when calculating tuition refunds.

If the student withdraws after the prescribed time limits (as indicated above), all tuition and other applicable fees and charges are forfeited. If fees were paid by scholarship, loan, or grant-in-aid, the appropriate credit is issued to the fund from which the initial payment was made.

If a student withdraws from a study abroad field course within the applicable add/drop period for that term, the student will be refunded the tuition portion of the course per the schedule above. However, the University is not able to guarantee, and does NOT guarantee, that any portion of the program fee for that course will be removed or refunded if the student withdraws from the program for any reason either during or after the close of the add/drop period. If the University has already paid or encumbered funds on the student's behalf at the time of withdrawal, the student is obligated to pay the amount encumbered or paid by the University.

Title IV financial aid funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance was awarded. If a student completely withdraws on or before the 60% point in time of the period of enrollment, calculated using calendar days, a portion of the federal aid awarded (Federal Pell, SEOG, Perkins Loans, Direct Loans, and PLUS Loans — but not Federal Work Study) may need to be returned according to the provisions of the Higher Education Amendments of 1998. This recalculcation may result in the student's owing a balance to Youngstown State University and/or the federal Department of Education.

Any withdrawal, or reduction in academic hours after the schedule outlined above will not be entitled to a reduction of charges and/or refund unless an Application for Involuntary Withdrawal is submitted and approved by the Fees and Charges Appeal Board. All decisions made by this board are final and binding.

University Resources
Academic Support Services
Resch Academic Success Center
Academic Coaching Services

The Resch Academic Success Center (RASC) Academic Coaching Services offers professional academic coaching to assist students on a one-on-one basis with strategies for college success. Coaches partner with you to help you understand the "why" and the "how" of learning. Together, you and an academic coach can figure out what's holding you back from being successful and create better study methods to move you ahead. A coach can also help you tackle common academic concerns like managing your time, reducing procrastination, setting goals, performing better on tests, easing test anxiety, and changing your mindset.

Visit Resch Academic Success Center Academic Coaching Services (https://www.ysu.edu/center-for-student-progress/) for more information or call (330) 941-3538.

Adult Learner Services

The Resch Academic Success Center Adult Learner Services assists adult students in making the transition to and graduating from college. Adult students are defined as those who are 25 years of age or older or who have been out of school four years or more. The RASC/Adult Learner Services provides academic and personal support both individually and through programming with services such as:

- Academic Coaching
- Early Alert Reporting System (EARS)
- Time management and goal setting for adults

For more information or call (330) 941-3538.

Accessibility Services

The Resch Academic Success Center (RASC) Accessibility Services provides students, faculty, and staff with assistance and information regarding accommodations for students with disabilities, either permanent or temporary. Compliance with the Rehabilitation Act of 1973 and the Americans with Disabilities Act as amended in 2008 involves providing reasonable accommodations to qualified individuals with disabilities. These accommodations are provided in order to ensure equal access to people with disabilities regarding educational opportunities, programs, and activities.

The RASC Accessibility Services addresses the needs of students with disabilities. Support for academic success includes:

- Serving as the gateway for accommodations for YSU students with disabilities
- Providing accommodation information
- Collaborating with faculty/staff regarding issues involving students with disabilities
- Arranging for classroom accommodations for students with disabilities to allow equal educational access
- Making campus referrals/connections

To inquire about receiving disability services, please contact the office at (330) 941-1372 (voice), (866) 757-1353 (video), or (330) 941-7470 (fax). A confidential appointment will be set up to discuss accommodation needs. The RASC/Accessibility Services is located in Kilcawley Center/2nd Floor, room 2082.

Visit https://ysu.edu/center-for-student-progress/disability-services (https://ysu.edu/center-for-student-progress/disability-services/) for additional information or call (330) 941-1372.

Strong START

Strong Start is a first year program for YSU students whose true academic promise may not be reflected in their standardized test scores or their high school GPA.

Program Features

Every student admitted into the program will have a program advisor to:

- Provide academic coaching to students their entire first year of college.
- Instruct the First Year Experience Course: Strong Start 1500
- Support guided major and career exploration

For more information about Strong Start, visit https://ysu.edu/resch-center-student-progress/start-strong-first-year-program (https://ysu.edu/resch-center-student-progress/start-strong-first-year-program/)
**Student Tutorial Services**
The Resch Academic Success Center Tutorial Services provides support for academic success by offering:

- Academic support in a variety of lower and upper division courses
- Appointments are scheduled on first come, first served basis
- Students meet weekly at the same time/day with same Peer Tutor
- Small group tutoring for high demand and historically difficult courses
- Tutors offer review sessions for exams
- Emphasis on clarifying content, providing opportunities to practice, and developing independent learning, critical thinking and problem-solving skills.

Visit Resch Academic Success Center Tutorial Services (https://www.ysu.edu/center-for-student-progress/tutorial-services/) or call (330) 941-7253.

**International Programs Office (IPO)**
The IPO (https://www.ysu.edu/ipo/) is responsible for coordinating the international dimensions of the university, including international student and faculty services, study abroad and exchange programs, and servicing the English Language Institute (ELI). IPO also coordinates international student recruitment and admission, the international student health insurance program, and the Stephen and Brigitta Hanzeley International Student Scholarship. The IPO also provides immigration-related services for international students, faculty, and staff. IPO houses the English Language Institute, the International Pathway Program, as well as the Summer in America Program. IPO also manages the International Memoranda of Understanding agreements for departments across the University.

**Study Abroad**
Youngstown State University encourages students to engage in international study as part of their YSU education. Credits earned through study abroad at a post-secondary institution overseas must be approved in advance through the IPO in consultation with academic colleges and departments. Students studying abroad through YSU-affiliated programs and institutions with the requisite amount of credits, maintain full-time status at YSU and remain eligible for state, federal, and institutional financial aid. Credits earned by foreign study through YSU-approved study-abroad programs are treated as transfer credit and therefore are not computed into the student’s grade point average. Students must be in good academic standing and meet the GPA requirements of both YSU and the host program in order to be approved to study abroad.

**SCHOLARSHIPS FOR STUDY ABROAD**
Most YSU tuition scholarships apply to study-abroad programs. The IPO also coordinates advising for the Fulbright, Gilman, Freeman-Asia, National Security Education Program (NSEP), and Rhodes Scholarships.

**INTERNATIONAL EXCHANGE PROGRAMS**
YSU students pay tuition and fees at YSU and exchange places with students from the overseas institution for one or two semesters. YSU maintains reciprocal exchange agreements with the University of Liege in Belgium, University of Jyväskylä in Finland, Meiji University in Japan, Fontys University of Applied Sciences in the Netherlands, Sejong University in South Korea, and Providence University in Taiwan. All programs offer coursework in English.

**AFFILIATED PROGRAMS**
Youngstown State University is a member of the Ohio International Consortium (OIC). This membership provides YSU students with access to OIC scholarships and study-abroad opportunities. YSU maintains affiliation agreements with other high-quality study-abroad organizations.

**FACULTY-LED STUDY ABROAD COURSES**
The IPO works with YSU faculty who teach YSU international field study courses, which are YSU courses that incorporate an international component, usually one to four weeks in length. Recent YSU faculty-led study abroad programs have been conducted in the Bahamas, Belize, China, Costa Rica, Czech Republic, Dominican Republic, Ecuador, England, France, Germany, Ghana, Greece, Guatemala, Israel, Italy, Japan, Mexico, Poland, Rwanda, South Korea, Spain and Taiwan.

**The English Language Institute**
Established in 1996, the English Language Institute (https://www.ysu.edu/english-language-institute/) (ELI) at Youngstown State University offers an intensive English program with non-credited classes for English language learners. In addition, the ELI provides an orientation to college life and culture in the United States. Courses are available both to international students and to immigrants.

The ELI welcomes all students, as well as professionals, who wish to increase their English language proficiency. The ELI prepares students for academic study and life in the United States, using the following curriculum:

- Six levels of classes (Foundations, Levels 1-5) covering Grammar, Reading, Writing, Listening, and Speaking
- 20 hours of instruction per week.
- Five 8-week modules per academic year.

ELI admission is through the International Programs Office. Students must be at least 17 years old or have completed high school. Successful completion of Level 5 in the majority of YSU master’s programs. For more information and to submit an application, please visit the ELI (http://www.ysu.edu/english-language-institute/) website.

**International Student Organization (ISO)**
Originally founded in 1958 as the International Student Federation, the purpose of ISO is:

- To promote positive interactions among U.S. American and International students;
- To increase awareness of international cultures at Youngstown State University and in the Youngstown community.

Interactions are promoted through campus and citywide activities and events.

**Mathematics Assistance Center**
The Mathematics Assistance Center (MAC) is an academic support service integrated within the Department of Mathematics and Statistics. Its mission is to offer YSU students a comfortable supportive environment to facilitate the strengthening of their fundamental mathematical skills. Through collaboration with the campus community, the MAC strives to continually expand tutoring and support services to meet the needs of students and enhance their overall learning experience. This mission is accomplished through services provided such as peer tutoring and the provision of resource materials for independent study.

The MAC has various services available to currently enrolled YSU students. These include:

- Online and in person drop-in peer tutoring*
- Online and in person appointment-based peer tutoring*
- Support for online homework
- Support for ALEKS placement
- Exam review sessions
- Study areas for independent learning*
- Access to mathematical and statistical software (MATLAB, SPSS and R)
- Access to textbooks and solution manuals*
- Access to formula sheets and other course-related supplements*

The main service, peer tutoring, is provided to YSU students either currently enrolled or preparing to enroll in mathematics and statistics courses ranging from introductory statistics, quantitative reasoning, and college algebra
through calculus. The other services are provided as needed and as resources permit.

The Mathematics Assistance Center operates on a walk-in* and appointment basis during its regular business hours (listed below) at its location in Room 408 of the Lincoln Building. The staff of the MAC consists of a coordinator, graduate teaching assistants, undergraduate tutors, student office assistants, and other student personnel.

For additional information, contact the Mathematics Assistance Center at (330) 941–3274. Hours for fall and spring semesters are as follows: Monday through Thursday, 9:00 a.m. to 6:00 p.m., and Friday, 9:00 a.m. to 3:00 p.m. For assistance during summer terms, call the MAC to inquire about its hours of operation. For more information, visit the Mathematics Assistance Center (http://cmst.ysu.edu/mathematics-assistance-center/math-assistance-center/) website.

*Access to these services may be limited or suspended in response to health and safety concerns.

The Writing Center

The YSU Writing Center is operated by the Department of English to provide individualized instruction in writing for all students. The goal of the Center is to help clients become more independent, confident, and successful writers. The Writing Center staff includes faculty, graduate assistants or interns, undergraduates, and a full-time coordinator.

Services include one-to-one feedback on any writing task, at any stage, for any course, as well as peer-group reviews, workshops, and access to instructional handouts. The services offered by the YSU Writing Center are free of charge to all registered YSU students.

The Writing Center is located on the lower level of Maag Library, Room 171. Writing Center hours are Monday through Thursday 9 a.m. – 5 p.m., and Friday 10 a.m. – 1 p.m. Students can schedule appointments through WConline (https://ysu.mywconline.com/). Evening, weekend, and satellite hours vary by availability.

For more information about the Writing Center, please call (330) 941-3055, visit the Writing Center (https://ysu.edu/writing-center/) website or email wcenter@ysu.edu. Online appointments may be synchronous or asynchronous. For the latter, students need to upload a document in order to receive feedback within two business days of the scheduled appointment time.

Reading and Study Skills

The Reading and Study Skills course instruction focuses on improving reading rate and comprehension as well as enhancing strategies for studying at the college level. Staffed by instructors and undergraduate peer tutors, courses include RSS 1510A Advanced College Success Skills, RSS 1510B Basic College Success Skills and RSS 1510C STEM Advanced College Success Skills and students may be mandated to take those classes based on the COMPASS® Reading Test (CRT).

For more information about the Reading and Study Skills courses, please contact the Department of Teacher Education at (330)941-3251.

Maag Library

The William F. Maag, Jr. Library supports learning at YSU by providing facilities, resources, and instruction to meet faculty and student needs. The six-story building is at the heart of campus and provides a welcoming environment for those who need research materials, research help, or just a comfortable space to study. Study spaces throughout the library offer diverse seating options, mobile white boards, and power towers for charging mobile devices. Individual study rooms can be checked out and the 4th floor houses two group study rooms with interactive media. Floors 3 & 4 of the library are for group study and floors 5 & 6 are for silent study. A family study room is available where student parents can study while being able to supervise their children.

Maag Library is a member of OhioLINK, a group of 120 Ohio college and university libraries who collaborate to provide access to print and electronic resources essential to student academic success. Over 46 million items are available for request through OhioLINK. The library provides onsite access to over 750,000 items, including books, journals, music scores, maps, microforms, CDs, DVDs, etc. Items can be located through MaagNET, the library’s online catalog. Materials may also be requested from other OhioLINK institutions to be sent to Maag for checkout. The library also provides many textbooks, which are available for 3-hour checkout. Over 200 research databases are available to YSU students, faculty, and staff. Database access is provided through the library website (http://www.maag.ysu.edu/), and when off campus, users must authenticate with their name and YSU ID number. The research databases cover a wide variety of disciplines and provide access to scholarly, trade, newspaper, and popular sources of information.

The Reference Room on the main floor provides computer, printing, and scanning access as well as research help. Librarians are available for in-depth research help or questions can be asked through the Ask A Librarian email service. Librarians teach library instruction classes in their respective subject areas to help students and faculty learn how to conduct research and navigate the research databases.

The 3rd floor contains the Maag Cafe and a group study area that provides an open and collaborative learning space with computer access, a smart TV viewing area, listening stations, podcast booths, and a Verb table that supports technology integration from laptops to a monitor. The 3rd floor is also home to the Microforms Center where microfilm and microfiche can be viewed, printed, and digitally saved.

Archives & Special Collections is located on the 5th floor and serves as the official repository for the historical records of YSU and also as an archival repository for historical materials relating to the history of Youngstown and the Mahoning Valley. The Melnick Medical Museum collects, preserves, and interprets the history of medicine, especially as it relates to Youngstown and the Mahoning Valley.

Government documents are located on the 6th floor. Maag is a Federal Depository Library and regularly receives new government publications, including books, maps, pamphlets, CD/DVDs, etc. Most government publications are online and available through MaagNET and the OhioLINK Library Catalog.

The Wilcox Curriculum Resource Center (CRC) is a division of Maag Library located on the main floor of Beeghly Hall. The CRC contains collections of various formats in the fields of education, special education, social work, psychology, and counseling. The CRC provides access to many types of materials, including children’s literature, games & kits, K-12 textbooks, leveled readers, media, puppets, and more.

Other services separate from the library but housed within the building include the IT Service Desk (4th floor) and the Writing Center, Testing Center and English Language Institute, which are all located on the lower level.

Information Technology Services

YSU’s Information Technology Services (ITS) mission is to enable students, faculty and staff to create a technology-integrated approach to education, scholarship and service. The ITS Division includes five departments: Customer Services, Application Services, Infrastructure Services, Security Services and a Project Management Office.

The ITS Service Desk is the primary point of contact for technology customer support needs and is located on the fourth floor of Maag Library. Support is provided by phone, in person and through the IT Services portal. The Service Desk provides first-level technical support of all the YSU computer systems, telephones, classroom multimedia equipment, and assists with password-related problems, helps with installing ‘academic-related’ software, and
configuring devices to connect to the YSU wired and wireless networks. More information is available at the Service Desk (https://ysu.edu/it-service-desk/) website.

Overall, ITS provides:

- Administrative and student systems including registration and finance
- Student Mobility Support through the Penguin Plug-in stations (Kilcawley and Moser Bridge
- Desktop technology support in labs and offices
- Classroom technology support
- Wired and wireless networking and security
- Telephone technology support
- Data Center infrastructure support
- Website technology support
- Application Access via the YSU App Cloud
- Device Loaner Program

Academic technology support with a focus on multimedia classrooms

More than 5,000 online technology devices, including personal computers, printers, and multimedia systems are located on campus. Personal computers are available on campus for instruction and research. Currently, multiple Computer Labs exist within each of the academic and campus recreational buildings on campus. Selected classrooms are equipped to facilitate broadcast quality, full-motion video distribution, and distance-learning opportunities. The YSU Network provides faculty, staff, and students the opportunity to access networks and current-generation computer hardware and software via a high-speed state-of-the-art network infrastructure. A Virtual Private Network (VPN) is provided for secure remote access to campus. A campus-wide wireless network provides mobility for students and employees. AT&T Wi-Fi services are also available for visitors.

Detailed information on technology support and services is provided on the ITS (https://ysu.edu/information-technology-services/) website.

Laboratories

In addition to the Computer Center, Youngstown State University offers students a wide range of up-to-date laboratories and equipment across campus.

Located in DeBartolo Hall, the Language Learning Resource Center is designed for individual study in second-language acquisition and the study of foreign languages, literatures, and cultures. Six audio lab carrels in room 558 are equipped with Sanako hardware and software for language learning. Students may also bring their own devices and access numerous charging stations, desks with whiteboards, and color printing. The LLRC also oversees room 561, one of the Aneal Mohan Kohli classrooms of the future, which has an additional 30 student Dell personal computers and is an open lab when not in use for a class. Student assistants are hired to assist with the equipment and to tutor the languages taught at YSU.

Operated by the Department of English and World Languages, the LLRC provides free individualized instruction in world languages and support for English linguistics courses for all registered YSU students. The LLRC hours are Monday through Thursday 8 a.m. - 8 p.m. and Friday 8 a.m. - 3 p.m. Students can schedule appointments through WCOnline (https://ysu.edu/writing-center/schedule-wc-appointment/). For more information about the LLRC, please call (330) 941-3465 or e-mail ysullrc558@gmail.com. Face-to-face and online synchronous appointments are available with peer tutors.

In the psychology laboratories, located in the basement of DeBartolo Hall, students can learn basic techniques of experimental psychology, child psychology, social psychology, and survey research. Equipment includes an electromagnetically isolated room, animal housing areas, a child observation room, equipment for the control of animal behavior, and various physiological recording devices.

The anthropology and archaeology laboratory has a wide range of specialized equipment including:

- standards for the parameters of a biological profile (age, sex, ancestry and stature)
- statistical analysis packages for biological anthropology research
- anthropometry instruments
- archaeology research tools

The Department of English has eight computer labs in DeBartolo Hall primarily for the use of students enrolled in English composition and professional and technical writing classes, one lab for journalism classes in Fedor Hall, and one lab for composition classes and Writing Center use in Maag Library.

Computer facilities in the new Williamson Hall include three networked computer labs, a Financial Service Lab, and Professional Sales Lab. Specialized software used in business courses is also available.

In Cushwa Hall, laboratories are provided for radio broadcasting, physical therapy, dental hygiene, microbiology, nursing, criminal justice, respiratory care, human ecology, medical laboratory technology and science, clothing and textiles, medical assisting, emergency medical services, and polysomnography.

Laboratories in Moser Hall are described in the College of Science, Technology, Engineering, and Mathematics section of the catalog.

For more information, visit the Campus Computer Labs.

Comprehensive Testing Center

The Comprehensive Testing Center is a part of the Division of Student Success. Among the testing services provided are administrations of national admission and certification examination. These include:

- American College Test (ACT)
- Graduate Record Exam (GRE) Subject Test
- Miller Analogies Test (MAT)
- Law School Admissions Test (LSAT)
- PRAXIS exam
- SAT

Additionally, YSU’s placement testing is administered through this office. Placement tests are administered year-round in both group and individual sessions.

For more information visit the Testing Center (http://cms.ysu.edu/administrative-offices/testing-center/testing-center/) website.

Campus Facilities

Campus Development

During its earlier years, Youngstown State University had a number of homes. Starting in the old Central YMCA building, it occupied various sites on Wick Avenue until the completion of Jones Hall in 1931. Additional buildings have been constructed and nearby properties converted to University use so that today the campus extends through most of an area five blocks long and four blocks wide, covering almost 150 acres. The University also owns 118.4 acres in Hartford Township.

Stambaugh Stadium

The long-time home of the YSU Football program, the Arnold D. Stambaugh Stadium complex is one of the top FCS facilities in the country. The Penguins play all their home games on Beede Field, which features a state-of-the-art
artificial-turf surface. The Stadium itself has a seating capacity of 20,630 and has a loge complex that houses 26 individual suites. The building is the location of the Jerome Hopkins Academic Center, the Athletics Strength and Conditioning Complex, Athletic Training Room, Athletic Ticket Office, ROTC, a travel agency, racquetball courts, three full-length basketball courts, and numerous athletics offices. The locker rooms for the softball, soccer, baseball, and football programs are also housed in the building.

Atop the stadium and overlooking the city of Youngstown is the DeBartolo Stadium Club. The club provides seating and dinner/party seating for more than 200 guests and is available to campus and community organizations or individuals. For reservation information, please contact the Athletic Department at (330) 941-2385.

Don Constantini Multimedia Center
The Don Constantini Multimedia Center, which was completed in Fall 2019, sits atop the east side of Stambaugh Stadium. The new facility houses a "Classroom of the Future" for the Department of Communications and hosts game day media activities for all Stambaugh Stadium events.

Beeghly Physical Education Center
The longest-standing on-campus athletics facility is the Beeghly Physical Education Center. The facility, which was first used in 1972, is home to the basketball, volleyball, and swimming and diving programs. The Department of Kinesiology and Sport Science, the basketball programs offices, and many YSU athletic teams are located in the building. The Beeghly Center court is named after longtime basketball coach Dom Roselli. The arena has a seating capacity of more than 6,000 and serves as the home court for the volleyball and basketball teams. The natatorium features five diving platforms and an impressive swimming pool. Also in the new-look building is the Coaches Court, a room used by the YSU Penguin Club. Additionally, Beeghly Center houses faculty offices, four classrooms, laboratories for research and kinesiology, physical education for handicapped, a dance studio, a rifle range, and a fitness center.

YSU Softball Complex
The Youngstown State Softball Complex opened in the spring of 2014 and provides a full-time on-campus home for the Penguins. The facility is located on the west side of campus west of Stambaugh Stadium and just south of Farmers National Bank Field. The lighted complex has access to concessions and restrooms and has seating for more than 500 spectators.

WATTS
The Watson and Tressel Training Site opened in the fall of 2011. One of the more eye-popping buildings on campus, the WATTS is an indoor athletic facility containing a 300-meter competition track, a full-length football field, batting cages, a putting green, protective netting, and locker room facilities for the golf and track and field teams. Built at a cost of nearly $14 million, this facility allows for year-round training for all athletic programs, as well as a competition site for the track and field teams. Students are permitted in the facility at most times, the WATTS is open for public use in the evening during the winter.

Farmers National Bank Field
YSU’s soccer and track and field programs call the Farmers National Bank Field home, located on the west end of campus across from Stambaugh Stadium. The full-length soccer field and eight-lane 400-meter NCAA regulated track is one of the best in the region. The facility opened in the fall of 2013 and is utilized by the campus recreation department for intramurals throughout the year.

Andrews Student Recreation and Wellness Center
The Department of Campus Recreation is located in the Andrews Student Recreation and Wellness Center. This state-of-the-art facility contains more than 140 pieces of strength and conditioning equipment. Located near the free-weight and cardio area is the Center’s impressive rock wall, at 53 feet, Ohio tallest. Volleyball, basketball, and other activities are situated within the multi-purpose sports forum, which contains four courts. The spacious aerobic studios are home to many group exercise classes and are adjacent to the 1/8-mile indoor track, both on the top floor of the facility.

The Andrews Center also includes a tranquil meditation studio, full-functioning locker rooms, and the Wellness Resource Center. In addition to the Andrews Student Recreation and Wellness Center, the Department supervises programs in Beeghly Physical Education Center, Stambaugh Stadium and the outdoor complex. Participants must have a valid YSU ID card to use the facilities, equipment, services, and programs offered by the Department of Campus Recreation.

The Department of Campus Recreation provides creative and innovative, instructed or self-led wellness, and recreational programming to meet the diverse needs of our students and the YSU community.

For additional information about the Department of Campus Recreation, please contact (330) 941-3488 or visit Campus Recreation (http://cms.ysu.edu/administrative-offices/campus-recreation-and-wellness/campus-recreation/).

Cafaro Family Field
The new Cafaro Family Field on the north side of campus lies along Elm Street adjacent to the Cafaro House residence hall and is funded, in part, through a gift from the Cafaro family. The facility includes lighting, seating and restrooms, and is used for a variety of student recreational activities including soccer, lacrosse, rugby, Ultimate Frisbee and intramurals throughout the year.

Indoor Tennis Center
Construction was completed in March 2020 the indoor tennis center on the west side of campus, across Fifth Avenue. The new facility is houses six tennis courts, restrooms and locker rooms.

Off-Campus Athletics Facilities
While Youngstown State has some impressive on-campus facilities, programs still utilize areas off campus for events and competition. The baseball program plays all home games at Eastwood Field in Niles. Eastwood Field, a 6,000-plus seat stadium, is home to the Cleveland Indians’ short-season Class A affiliate. The golf programs call Mill Creek Park’s course its official home, but practice at various courses throughout the area.

Beeghly Hall
The four-story, 96,600-square-foot Beeghly Hall opened in the fall of 1998 to serve as the College of Education building.

On the main floor are the main north/south entrance and access, dean’s suite, Wilcox Curriculum Resource Center, Child Study Center, and the 400-seat multi-purpose and multi-media Mckay Auditorium.

The Beeghly Hall houses:
• Teacher Education
• Counseling School Psychology & Educational Leadership
• Center for Human Service Development
• Transition Opportunities in Post-Secondary Settings (TOPS)
Campus Facilities

Rainbow Hall

Housing the College of Science and Engineering, Rainbow Hall, which was completed in 1976, was named in memory of William E. Bliss, a prominent area industrialist. Its facilities include:

- A 367-student residence hall
- 46 faculty office-studios
- 24 faculty office-studios
- Computer labs
- Faculty and staff offices
- Computer labs
- Conference rooms
- State-of-the-art LED light grid with ETC ColorSource lighting console
- 800 sq-foot production floor
- Front-of-house facilities
- Green room
- Box office
- Costumer design studio
- Theatre design studio
- Lab theatre/rehearsal studio
- Full HD television studio
- Video editing suite (5 bays)
- Full Adobe Creative Cloud Suite with Premier
- 3 sound-proof editing booths
- Mobile Media Units
- 8 channel Mackie mixers
- Broadcast headsets
- H6 Zoom recorders
- Full Audio Theatre Production System
- 16 channel Mackie mixer
- Rode cardioid condenser microphones
- Shure SM58 microphones

DeBartolo Hall

First occupied in 1977, DeBartolo Hall, home to the College of Liberal Arts, Social Sciences & Education, houses:

- Project Pass
- Community Counseling Clinic

Bliss Hall

Housing the College of Creative Arts and Communication, Bliss Hall, which was completed in 1977, was named in memory of William E. Bliss, a prominent area industrialist. Its facilities include:

- Judith Rae Solomon Gallery
- Student work space/art gallery
- Conference and seminar rooms

DEPARTMENT OF ART

- Photography computer lab with large format printers
- Photography studio lab with black and white enlargers
- Printmaking studio with large format lithography, etching/relief, and screen printing presses
- Fully equipped drawing, printmaking, sculpture and painting studios
- Art Education studio lab with SMART board technology
- 20 station Mac-based digital media computer labs (2) with 3d printers
- 20 station Mac-based graphic design computer labs (2)
- Ceramics studios with gas, electric, raku, and salt kilns, throwing wheels, and hand building stations
- Woodworking studio lab with large stationary equipment
- Dedicated workspace with large 48-inch laser cutter
- Metals fabrication lab with welding and metal working equipment
- Casting foundry with induction furnaces for ferrous and non-ferrous metals and 2-ton overhead bridge crane
- Exterior 3000 square foot work area with one-ton jib crane
- Approximately 21,000 square feet of professional and student experimental gallery spaces
- Individual graduate student studio spaces
- 16 art faculty offices

DEPARTMENT OF COMMUNICATION

- Full HD television studio
  - 800 sq-foot production floor
  - State-of-the-art LED light grid with ETC ColorSource lighting console
  - JVC HD studio cam (2 on Vinten Osprey Elite pedestals, 1 on jib, 1 handheld)
  - Control room with NewTek 860 Tricaster, Allen & Heath QU-32 Digital audio console and LiveTex graphics work station
- Video editing suite (5 bays)
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DANA SCHOOL OF MUSIC

- 248-seat Bliss Recital Hall with a Schlicker performance organ
- 80 acoustically controlled music practice rooms equipped with Steinway studio or grand pianos
- Two organ practice rooms with Flentrop practice organs
- 30 faculty office-studios that may be utilized for music instruction

DEPARTMENT OF THEATRE & DANCE

- Ford Theatre, 400 seat proscenium stage
- Spotlight Arena Theatre, an experimental theatre with flexible seating for up to 250
- Costumer design studio
- Scenic design and construction studio equipped with advanced scenic technology
- Lab theatre/rehearsal studio
- Theatre design studio
- Film screening room
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- Front-of-house facilities
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Cushwa Hall

Opened in 1976, this structure houses the Bitonte College of Health and Human Services, as well as the Peace Officer Training Academy, Janitorial Services and Recycling, and the Office of Environmental Occupational Health & Safety (EOHS). One of the largest buildings on campus, it contains 28 classrooms, 40 laboratories, 172 offices, and two lecture halls. In summer of 2013, the building underwent a $2.2 million renovation. Various medical artifacts from the Rose Melnick Medical Museum are currently displayed throughout Cushwa Hall as well.
In this six-story structure are more than 172 offices for faculty and staff, five student lounges and study areas, 15 classrooms, 13 laboratories, a computer terminal room, a 200-seat lecture hall, and special varied laboratories for the Department of Psychology. Building renovations took place in the summers of 2013 and 2014.

Fedor Hall
Fedor Hall is located on the west side of Elm Street. It was constructed in 1949 and purchased from the Youngstown Board of Education in September 1965. A major renovation should be completed by Fall of 2020, which houses Wee Care Day Care Center and the Rich Center for Autism.

Historic Buildings
Listed in the National Register of Historic Places in recognition of their representing important eras in Youngstown’s development, these two buildings are in the Wick Avenue Historical District. Renovation efforts were dedicated to maintaining the visual, architectural and physical character of these structures while recognizing, identifying, and preserving their heritage.

Coffelt Hall
This two-story brick building, located on the north side of University Plaza, was constructed in 1933 and renovated in 2010 to house the College of Graduate Studies.

Jones Hall
One of the oldest buildings on the present campus is Howard W. Jones Hall, a limestone structure of conventional Tudor style on the northwest corner of Wick and Lincoln avenues. Built in 1931 and long the institution’s “main building,” it was renamed in 1967 to honor the man whose energy and acumen, during his 36 years as president, brought an embryonic college to membership in the state university system.

The structure was enlarged in 1949 by the addition of the C.J. Strouss Memorial Auditorium, named for the then president of the Strouss-Hirshberg Company, a friend and trustee of the University. In 1978 the interior was completely remodeled to accommodate administrative offices. Jones Hall currently houses the Division of Student Success, Payroll, Controller’s Office, International Programs, Multicultural Affairs, Upward Bound/Scope/Academic Achievers, Procurement Services. Accounts Payable/Purchasing, Associate Provost Student Success, and division of Academic Affairs.

Kilcawley Center
Since its opening in April 1974, Kilcawley Center has served as the heart of campus. This not only refers to its central location on campus, but also to the many services, conveniences, programs, and amenities it provides to the University community. The Center’s casual atmosphere, comfortable lounges, and attractive dining areas focus on making free-time activity an integral part of a YSU education. Through cultural, social, and recreational programming, Kilcawley Center provides for rich and diverse experiences for YSU students. Visit Kilcawley Center for details on services, hours of operation, staff directory, and the daily calendar of events.

Offered in Kilcawley Center:
- Accessibility Services
- ATM banking
- Catering Services
- Conference Services (with sixteen seminar rooms and a large multipurpose room)
- Graphic Services
- Penguin Pantry
- Penguin Xing (YSU IDs [Y Card], information center, lost & found, campus locker rentals, and meal plans
- Recreation and Lounge Space
- Resch Academic Success Center
- Rookery Radio
- Student Activities
- Student Counseling Services
- Student Government
- Student Media

Dining on Campus
Kilcawley Center offers diverse choices in dining including YSU Wendy’s, Jamba Juice, KC Food Court, Dunkin’, Hissho Sushi, and Pete’s Treats (convenience store). Visit Dine On Campus to learn more about dining, catering, and meal plans.

Lincoln Building
The Lincoln Building houses the Department of Mathematics and Statistics, the Math Assistance Center, the Office of Distance Education and the Office of College Access & Transition, as well as 14 classrooms and 3 laboratories, and 82 faculty and staff offices.

Maag Library
The University’s six-story William F. Maag, Jr., Library, completed in 1976, provides an attractive and comfortable environment for study and research. A member of the Online Computer Library Center (OCLC), Maag Library provides reference and inter-library loan services, CD-ROM as well as online database searching, access to government documents, and other services necessary to the needs of the University community. The University Archives are housed on the fifth floor, and the Tech Desk is located on the fourth floor. The lower level of Maag houses the Writing Center, Testing and the English Language Institute.

Melnick Hall
Located on Wick Avenue, the YSU Foundation, WYSU-FM, and the Office of Research, External Affairs, Government Relations and Economic Development are housed in Melnick.

Meshel Hall
Meshel Hall, dedicated January 1986, houses expanded facilities for academic and administrative computer use that broaden Youngstown State University’s educational programs. The state-of-the-art center is for instruction, research and application in advanced computer technology that serves the entire University community.

The four-story steel, concrete, stone and glass structure contains 90,100 square feet of space and is located to the west of the Wick Avenue Parking Deck with its main access and entry by the Stavich Family Bridge over Wick Avenue. The building contains 5 classrooms, 13 specialized computerized laboratories, and 89 faculty & staff offices. The Office of University Bursar, the Office of Financial Aid and Scholarships, the Office of the Registrar, the Penguin Service Center, and the Office of Records are located on the second floor.

The first floor of Meshel Hall was recently renovated to include digital speech capture labs, team innovation lab, media production labs, public speech
tutoring center, and a state-of-the-art, 50-Seat multimedia communication classroom.

The Department of Computer and Information Systems is located on the third floor. The majority of the fourth floor houses the University's main computer facilities and Computer Center staff.

**John J. McDonough Museum of Art**

The McDonough Museum of Art, founded in 1991, is the University Art Museum for YSU and the Valley's premier Center for Contemporary Art. Housed in a twenty thousand square foot facility designed by internationally known architects Gwathmey Siegel & Associates, the Museum stands as a testament to High Modernist design. The Museum features changing exhibitions, installations, performances and lectures by regional, national and international artists, and also functions as public outreach for the Cliff College of Creative Arts and Communication and the Department of Art, exhibiting work by students, faculty and alumni. In addition, the Museum offers free lectures, performances and programs organized in collaboration with varying departments on campus and the community at large.

**Moser Hall**

Moser Hall, a five-level structure completed in 1967, houses the College of Science, Technology, Engineering, and Mathematics. In addition to 71 research and scheduled laboratories, 8 classrooms, 2 research and development rooms, 7 conference rooms, and 76 offices, it contains the 200-seat state-of-the-art Schwebel Auditorium. A $6,873,000 renovation project was completed in fall 1996. Moser Hall also houses the Clarence R. Smith Mineral Museum.

**Phelps Building**

The Phelps Building, located on the corner of Lincoln Avenue and Phelps Street on campus, houses the Department of Geography, and Institutional Research andAnalytics.

**Service Buildings**

The buildings at various locations on campus that house specific services include:

- **SALATA COMPLEX**
  Salata Complex, located on Rayen and Wood Streets, houses University planning and construction, maintenance, administration staff, Grounds Department staff and equipment, Central Receiving, Key Control, Motor Pool, various repair shops, Printing Services, and Mail Room.

- **CENTRAL UTILITY PLANT**
  The Central Utility Plant is located south of the new WATTS Center on the north side of campus and produces steam and chilled water for University needs that is distributed through a system of underground tunnels and direct-burial utility lines.

**Smith Hall**

Parking Services has been moved to this new location at 275 Fifth Avenue (southeast corner of Rayen and Fifth Avenues).

**Sweeney Hall**

Sweeney Hall–formerly Dana Hall–a classic one-story building located at the corner of Bryson Street and University Plaza, was constructed in 1908. The building houses the Sweeney Welcome Center and the Office of Admissions.

**Tod Hall**

The University’s main administrative offices are in Tod Hall, a former library building built in 1952 and thoroughly renovated in 1978. These offices include:

- Office of the President
- Office of the Provost
- Office of the Vice President for Finance and Business Operations
- Office of the General Counsel
- Division of University Relations
- Human Resources
- Office of Equal Opportunity and Policy Development
- ASECU Credit Union
- YSU Board of Trustees’ meeting room

**Veterans Resource Center**

Veterans Resource Center

The Carl A. Nunziato Veterans Resource Center, located at 633 Wick Avenue, houses the Office of Veterans Affairs (OVA) which serves as a central location to discuss issues, questions, or concerns current and prospective military and veteran students may have regarding their enrollment, various DOD, VA, Federal and State funding options and academic success.

The Veterans Resource Center (VRC) is a 6,000 square foot, fully handicap accessible facility that is the first of its kind at any university in Ohio. The VRC features lounge space, a computer lab, meeting rooms, a community/class room, kitchenette, and much more. The VRC is open to all student veterans, currently serving military members, and military dependents who are using veteran’s education benefits.

Students and all interested parties can contact the OVA by visiting ourOVA#website or emailing us atveterans@ysu.edu. Individual person-to-person meetings are available and encouraged.

**Ward Beecher Hall**

This building houses the departments of Biology, Chemistry, and Physics and Astronomy. The five-story original unit was constructed in 1958, a major addition was built on 1967, and a small addition comprising chemical storerooms was completed in 1997. It was built with funds contributed by Mahoning Valley Industries and area industrialist Ward Beecher. Presently the building contains 26 laboratories, including a planetarium and a greenhouse, 8 classrooms, 71 academic offices, 56 faculty-research rooms, and a conference-seminar room.

**Williamson Hall**

Opened in fall 2010, Williamson Hall houses the Williamson College of Business Administration offices, including:

- Office of the Dean
- Center for Student Services and the Professional Practice Program
- MBA program
- Lariccia School of Accounting and Finance
- Department of Management
- Department of Marketing

In addition, the building houses 14 classrooms, a Financial Services Lab, a Professional Sales and Business Communication Lab, interview rooms, a 200-seat auditorium, and a conference center. WCBA student organizations share office space in the building, and students have access to eight student team rooms, three networked computer labs, a quiet study lounge, and collaborative areas. Williamson Hall is also home to:

- Center for Nonprofit Leadership
- Williamson Center for International Business
- Nathan and Frances Monus Entrepreneurship Center
Ohio Small Business Development Center at YSU
Executive-on-Campus office

The Gallery of Industry, Business, and Entrepreneurship, a spacious sky-lit atrium and café are also part of the 110,000 square feet facility.

LEED-certified by the US Green Building Council, Williamson Hall is the first "green" building on the Youngstown State University campus.

Campus Development

During its earlier years, Youngstown State University had a number of homes. Starting in the old Central YMCA building, it occupied various sites on Wick Avenue until the completion of Jones Hall in 1931. Additional buildings have been constructed and nearby properties converted to University use so that today the campus extends through most of an area five blocks long and four blocks wide, covering almost 150 acres. The University also owns 118.4 acres in Hartford Township.

Stambaugh Stadium

The long-time home of the YSU Football program, the Arnold D. Stambaugh Stadium complex is one of the top FCS facilities in the country. The Penguins play all their home games on Beede Field, which features a state-of-the-art artificial-turf surface. The Stadium itself has a seating capacity of 20,630 and has a loge complex that houses 26 individual suites. The building is the location of the Jermaine Hopkins Academic Center, the Athletics Strength and Conditioning Complex, Athletic Training Room, Athletic Ticket Office, ROTC, a travel agency, racquetball courts, three full-length basketball courts, and numerous athletics offices. The locker rooms for the softball, soccer, baseball, and football programs are also housed in the building.

Atop the stadium and overlooking the city of Youngstown is the DeBartolo Stadium Club. The club provides meeting and dinner/party seating for more than 200 guests and is available to campus and community organizations or individuals. For reservation information, please contact the Athletic Department at (330) 941-2385.

Don Constantini Multimedia Center

The Don Constantini Multimedia Center, which was completed in Fall 2019, sits atop the east side stands of Stambaugh Stadium. The new facility houses a "Classroom of the Future" for the Department of Communications and hosts game day media activities for all Stambaugh Stadium events.

Beeghly Physical Education Center

The longest-standing on-campus athletics facility is the Beeghly Physical Education Center. The facility, which was first used in 1972, is home to the basketball, volleyball, and swimming and diving programs. The Department of Kinesiology and Sport Science, the basketball programs offices, and many YSU athletic teams are located in the building. The Beeghly Center court is named after longtime basketball coach Dom Roselli. The arena has a seating capacity of more than 6,000 and serves as the home court for the volleyball and basketball teams. The natatorium features five diving platforms and an impressive swimming pool. Also in the new-look building is the Coaches Court, a room used by the YSU Penguin Club. Additionally, Beeghly Center houses faculty offices, four classrooms, laboratories for research and kinesiology, physical education for handicapped, a dance studio, a rifle range, and a fitness center.

YSU Softball Complex

The Youngstown State Softball Complex opened in the spring of 2014 and provides a full-time on-campus home for the Penguins. The facility is located on the west side of campus west of Stambaugh Stadium and just south of Farmers National Bank Field. The lighted complex has access to concessions and restrooms and has seating for more than 500 spectators.

WATTS

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- Community Counseling Clinic

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- Student work space/art gallery
- Conference and seminar rooms

**Department of Art**

- Photography computer lab with large format printers
- Photography studio lab with black and white enlargers
- Printmaking studio with large format lithography, etching/relief, and screen printing presses
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**Department of Communication**

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- 800 sq-foot production floor
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- 4 JVC HD studio cam (2 on Vinten Osprey Elite pedestals, 1 on jib, 1 handhelld
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**Dana School of Music**

- 248-seat Bliss Recital Hall with a Schlicker performance organ
- 80 acoustically controlled music practice rooms equipped with Steinway studio or grand pianos
- Two organ practice rooms with Flentrop practice organs
- 30 faculty office-studios that may be utilized for music instruction
- Multiple music ensemble rehearsal facilities
- Dana Recording Studio features a
  - 12 core Intel Mac tower running Avid Pro-Tools 11, MOTU Digital Performer 7.24, and Apple Logic DAWs software
  - Universal Audio Apollo interfaces and a Tascam DM4800 fully automated mix surface
  - Outboard Kurzweil and Roland keyboards, controllers, and synths
  - Reason 7 and the Native Instruments Komplete 10 software package
  - Shure Large Diaphragm Condenser mics, Audio Technica SDC mics, Shure Beta 58s and 57s, and a matched pair of Cascade Fathead II ribbon microphones
  - Genelec 1031 monitoring system with 7050b Sub

**Department of Theatre & Dance**

- Ford Theatre, 400 seat proscenium stage
- Spotlight Arena Theatre, an experimental theatre with flexible seating for up to 250
- Costumer design studio
- Scenic design and construction studio equipped with advanced scenic technology
- Lab theatre/rehearsal studio
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**DeBartolo Hall**

First occupied in 1977, DeBartolo Hall, home to the College of Liberal Arts, Social Sciences & Education, houses:
• Department of Economics
• Department of Philosophy & Religious Studies
• Department of Political & International Relations
• Department of Psychology
• Department of Sociology, Anthropology, Gerontology
• Department of History
• Department of World Languages and Cultures
• English & Poetry Center
• Islamic Studies
• Africana Studies
• American Studies
• Gender Studies/Women Studies
• Peace and Conflict Studies
• Dr. James Daze Ethics Center/Rigelhaupt Pre-Law Center
• Center for Judaic & Holocaust Studies.

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Fok Hall
The Honors College is housed in the oldest building on campus, built in 1893 and originally the home of the Myron Israel Arms Family. It is located on the corner of Wick Avenue and University Plaza.

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• Student Government
• Student Media

Dining on Campus
Kilcawley Center offers diverse choices in dining including YSU Wendy’s, Jamba Juice, KC Food Court, Dunkin’, Hissho Sushi, and Pete’s Treats (convenience store). Visit Dine On Campus to learn more about dining, catering, and meal plans.

Lincoln Building
The Lincoln Building houses the Department of Mathematics and Statistics, the Math Assistance Center, the Office of Distance Education and the Office of College Access & Transition, as well as 14 classrooms and 3 laboratories, and 82 faculty and staff offices.

Maag Library
The University’s six-story William F. Maag, Jr., Library, completed in 1976, provides an attractive and comfortable environment for study and research. A member of the Online Computer Library Center (OCLC), Maag Library provides reference and inter-library loan services, CD-ROM as well as online database searching, access to government documents, and other services necessary to the needs of the University community. The University Archives are housed on the fifth floor, and the Tech Desk is located on the fourth floor. The lower level of Maag houses the Writing Center, Testing and the English Language Institute.

Melnick Hall
Located on Wick Avenue, the YSU Foundation, WYSU-FM, and the Office of Research, External Affairs, Government Relations and Economic Development are housed in Melnick.

Meshel Hall
Meshel Hall, dedicated January 1986, houses expanded facilities for academic and administrative computer use that broaden Youngstown State University's
educational programs. The state-of-the-art center is for instruction, research and application in advanced computer technology that serves the entire University community.

The four-story steel, concrete, stone and glass structure contains 90,100 square feet of space and is located to the west of the Wick Avenue Parking Deck with its main access and entry by the Stavich Family Bridge over Wick Avenue. The building contains 5 classrooms, 13 specialized computerized laboratories, and 89 faculty & staff offices. The Office of University Bursar, the Office of Financial Aid and Scholarships, the Office of the Registrar, the Penguin Service Center, and the Office of Records are located on the second floor.

The first floor of Meshel Hall was recently renovated to include digital speech capture labs, team innovation lab, media production labs, public speech tutoring center, and a state-of-the-art, 50-Seat multimedia communication classroom.

The Department of Computer and Information Systems is located on the third floor. The majority of the fourth floor houses the University’s main computer facilities and Computer Center staff.

John J. McDonough Museum of Art

The McDonough Museum of Art, founded in 1991, is the University Art Museum for YSU and the Valley’s premier Center for Contemporary Art. Housed in a twenty thousand square foot facility designed by internationally known architects Gwathmey Siegel & Associates, the Museum stands as a testament to High Modernist design. The Museum features changing exhibitions, installations, performances and lectures by regional, national and international artists, and also functions as public outreach for the College of Creative Arts and Communication and the Department of Art, exhibiting work by students, faculty and alumni. In addition, the Museum offers free lectures, performances and programs organized in collaboration with varying departments on campus and the community at large.

Moser Hall

Moser Hall, a five-level structure completed in 1967, houses the College of Science, Technology, Engineering, and Mathematics. In addition to 71 research and scheduled laboratories, 8 classrooms, 2 research and development rooms, 7 conference rooms, and 76 offices, it contains the 200-seat state-of-the-art Schwobel Auditorium. A $6,873,000 renovation project was completed in fall 1996. Moser Hall also houses the Clarence R. Smith Mineral Museum.

Phelps Building

The Phelps Building, located on the corner of Lincoln Avenue and Phelps Street on campus, houses the Department of Geography, and Institutional Research and Analytics.

Service Buildings

The buildings at various locations on campus that house specific services include:

Salata Complex

Salata Complex, located on Rayen and Wood Streets, houses University planning and construction, maintenance, administration staff, Grounds Department staff and equipment, Central Receiving, Key Control, Motor Pool, various repair shops, Printing Services, and Mail Room.

Central Utility Plant

The Central Utility Plant is located south of the new WATTS Center on the north side of campus and produces steam and chilled water for University needs that is distributed through a system of underground tunnels and direct-burial utility lines.

Smith Hall

Parking Services has been moved to this new location at 275 Fifth Avenue (southeast corner of Rayen and Fifth Avenues).

Sweeney Hall

Sweeney Hall—formerly Dana Hall—a classic one-story building located at the corner of Bryson Street and University Plaza, was constructed in 1908. The building houses the Sweeney Welcome Center and the Office of Admissions.

Tod Hall

The University’s main administrative offices are in Tod Hall, a former library building built in 1952 and thoroughly renovated in 1978. These offices include:

- Office of the President
- Office of the Provost
- Office of the Vice President for Finance and Business Operations
- Office of the General Counsel
- Division of University Relations
- Alumni and Events Operations
- Marketing and Communications
- Human Resources
- Office of Equal Opportunity and Policy Development
- AECU Credit Union
- YSU Board of Trustees’ meeting room

Veterans Resource Center

Veterans Resource Center

The Carl A. Nunziato Veterans Resource Center, located at 633 Wick Avenue, houses the Office of Veterans Affairs (OVA) which serves as a central location to discuss issues, questions, or concerns current and prospective military and veteran students may have regarding their enrollment, various DOD, VA, Federal and State funding options and academic success.

The Veterans Resource Center (VRC) is a 6,000 square foot, fully handicap accessible facility that is the first of its kind at any university in Ohio. The VRC features lounge space, a computer lab, meeting rooms, a community/class room, kitchenette, and much more. The VRC is open to all student veterans, currently serving military members, and military dependents who are using veteran’s education benefits.

Students and all interested parties can contact the OVA by visiting ourOVA#website or emailing us at veterans@ysu.edu. Individual person-to-person meetings are available and encouraged.

Ward Beecher Hall

This building houses the departments of Biology, Chemistry, and Physics and Astronomy. The five-story original unit was constructed in 1958, a major addition was built in 1967, and a small addition comprising chemical storerooms was completed in 1997. It was built with funds contributed by Mahoning Valley Industries and area industrialist Ward Beecher. Presently the building contains 26 laboratories, including a planetarium and a greenhouse, 8 classrooms, 71 academic offices, 56 faculty-research rooms, and a conference-seminar room.

Williamson Hall

Opened in fall 2010, Williamson Hall houses the Williamson College of Business Administration offices, including:

- Office of the Dean
- Center for Student Services and the Professional Practice Program
- MBA program
• Lariccia School of Accounting and Finance
• Department of Management
• Department of Marketing

In addition, the building houses 14 classrooms, a Financial Services Lab, a Professional Sales and Business Communication Lab, interview rooms, a 200-seat auditorium, and a conference center. WCBA student organizations share office space in the building, and students have access to eight student team rooms, three networked computer labs, a quiet study lounge, and collaborative areas. Williamson Hall is also home to:
• Center for Nonprofit Leadership,
• Williamson Center for International Business,
• Nathan and Frances Monus Entrepreneurship Center,
• Ohio Small Business Development Center at YSU
• Executive-on-Campus office

The Gallery of Industry, Business, and Entrepreneurship, a spacious sky-lit atrium and café are also part of the 110,000 square foot facility.

LEED-certified by the US Green Building Council, Williamson Hall is the first "green" building on the Youngstown State University campus.

Campus Safety

University Police Department

Youngstown State University maintains a well-trained and well-equipped campus police department. The department is located in Clingan Waddell Hall at the corner of Fifth Ave. and Wood St.

The staff consists of 26 sworn full time police officers, 70 intermittent sworn police officers, and five civilian support staff. All sworn police officers are trained and certified by the Ohio Peace Officer Training Academy and have full police powers. The department is a community-service, technology-efficient law enforcement agency. The staff is supported by a sophisticated communication system, closed circuit television, well-equipped police vehicles, and a computer-based record-keeping system.

The training of the departmental personnel is ongoing, and crime prevention is a departmental priority. During the academic year, various University organizations sponsor educational programs that feature YSU police officers speaking to students and employees about personal safety, awareness, security, rape/acquaintance rape, sexual-assault and prevention, as well as the prevention of burglary and vandalism.

The Youngstown State University Police Department has mutual aid agreements with the Youngstown City Police Department, the Mahoning County Sheriff’s Department, and a majority of other police Departments in Mahoning County and with other state universities in Ohio. The agreements provide for the Youngstown State University Police Department to exercise the same law enforcement authority when engaged in law enforcement functions as their partners in the various mutual aid agreements, in order to provide a safe and secure environment for the Youngstown State University Community. Certain officers from the department are also members of the Mahoning Valley Law Enforcement Task Force as well as the Mahoning County OVI Task Force. These task forces make available additional resources to the YSU Police Department.

The University Police Department is open 24 hours a day. The general business telephone number is (330) 941-3527. The emergency service number is extension 911 dialed through any campus extension. Campus emergency telephones are located throughout campus that will connect you directly to the YSU Police Department in the event of an emergency. 911 calls made from cell phones are answered by the City of Youngstown Communications Center. If a 911 call is made on a cell phone, it is important for the person to tell the call taker they are calling from the YSU Campus. All students are encouraged to program the YSU Police Department phone number (330) 941-3527 into their cell phones for immediate contact with a YSU Police Dispatcher when a campus phone is not available or convenient.

Campus Safety Statistics

Youngstown State University has an outstanding record of safety on campus. For a detailed description of campus safety measures and FBI Uniform Crime Report statistics, see the publication Annual Campus Safety and Fire Report available from YSU Police, the Vice President for Student Affairs, or from the campus crime-prevention boards located in all campus buildings. Statistics collected by the department on crimes occurring on or near campus are submitted to the U.S. Department of Education annually in compliance with the The Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act.

Campus Crime Alerts, as well as other information regarding campus safety, can be viewed at the University Police Department website. (http://cms.ysu.edu/administrative-offices/police/ysu/police/)

Emergency Notification System

The University has in place an emergency notification system that instantly reaches cell phones and other mobile devices when an urgent campus situation needs to be communicated. In the event of an emergency, a text message is sent to the mobile number and/or email registered with the system. Students must register at the YSU Alert Notification System website to receive emergency notifications. Parents and family of students may also sign up at the same website to receive alerts.

Student Security Service (SSS)

SSS is a free service provided by specially trained YSU student employees who will accompany students, faculty, and staff safely anywhere on campus. During the hours of operation, you can be escorted to the near North Side if an officer is also available to assist with the escort. Student Security Service aides are available Monday through Thursday from 7:00 a.m. to 11:00 p.m., and on Friday from 7:00 a.m. to 8:00 p.m., every day school is in session. The exception is summer semester and during breaks, when escorts are available from 7:00 am to 6:00 p.m. Monday through Friday. Those with disabilities who need assistance are encouraged to make special arrangements to be safely escorted to any location on campus, day or night. Call (330) 941-1515 for more information or to schedule an escort. After hours or on holidays and weekends, call the YSU Police Department at (330) 941-3527 if you need assistance.

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University Housing
YSU owns and operates four residence halls and one small apartment building. The YSU Housing & Residence Life team believes that living on campus in one of our four residence halls provides students with a fuller college experience. Whether you are an out-of-town or a local student, you will find a residential campus community that fosters academic success and personal growth.

What sets our halls apart is the supportive network our staffing structure provides students to flourish independently during their transition to college life. Our team of full-time live-in professional staff, Graduate Assistants and Resident Assistants work together to provide guidance for our communities to develop around the values of diversity and inclusion, wellness, and academics. Staff have regular conversations with residents regarding their overall goals for the semester, consistently help residents navigate campus and academic culture and plan a variety of events to help residents feel safe and included in the residential and YSU community.

The halls provide a more structured living environment, with procedures and regulations addressing community issues, including noise, safety, guests and security. Buildings feature security cameras in public-areas, 24-hour staffed desks, and locking exterior doors that require specific access cards for all residents. On-campus living is a good place to get to know many students in a short period of time. Sharing bathrooms, lounge space, and corridors with a group means you can’t help but make friends quickly. Being on campus also means that classes, the library, the student center, and the wellness center are never very far away.

One perk of living in University Housing is that students can partake in an extension of the Penguin Tuition Promise, through which they “lock in” a housing rate their first year. This rate, which includes the cost of room and board (rent, utilities, internet, and meals), will stay constant for up to four years. More information about our rates, contract, amenities, and meal plans can be found on our website (https://ysu.edu/housing-and-residence-life/rates-and-contracts/).

Once a student has been accepted to YSU, they can submit a housing application*. The application costs $35.00 and includes the cost of a background check. As part of the application, students can self-select their building, room, and roommate.

* Note: As part of the application, students have the opportunity to self-select their building, room, and roommate. Students must also pay a $250 housing prepayment at the conclusion of the application. This prepayment will be added as a credit to a student’s bill at the beginning of fall semester.

About our halls
• Kilcawley House, located on University Plaza, is a traditional residence hall conveniently connected to the student union.
• Lyden House and Cafaro House, located on Madison Avenue, are both traditional residence halls and located in close proximity to the dining hall.
• Wick House located on Wick Avenue, is a small historic home that was converted into a residence hall. This community houses a smaller upper-class community.
• Weller House also located on Wick Avenue, is a small building with 16 efficiency apartments that is typically used for graduate and family housing.

KILC partial white space

KILCawley HOUSE
Kilcawley House was built in 1965 and sits at the heart of YSU’s campus. Students living in this building are uniquely situated to access everything on campus, including Kilcawley Center, class building, the library, and more. Housing just about 225 students, Kilcawley underwent a renovation in 2015. The newly updated rooms have wall-to-wall carpet and new furniture. More information about the building, including floor plans and other building amenities, can be found on our website (https://ysu.edu/housing-and-residence-life/kilcawley-house/).

LYDEN HOUSE
Lyden House opened in 1991 as just the second residence hall on YSU’s campus. Located next to both Cafaro House and Christman Dining Commons, Lyden is the largest of the residence halls, housing about 330 students. More information about the building, including floor plans and other building
Amenities, can be found on our website (https://ysu.edu/housing-and-residence-life/lyden-house/).

CAFARO HOUSE
Cafaro House opened in the fall of 1995 and houses students in the Honors College. This building houses students of all genders, features a suite-style floor set-up, and is home to about 280 students. More information about the building, including floor plans and other building amenities, can be found on our website (https://ysu.edu/housing-and-residence-life/cafaro-house/).

WICK HOUSE
Located on Wick Avenue next to the Arms Family Museum of Local History and near the Butler Institute of American Art, Wick House is a restored mansion that was at one time the home of the historic Youngstown Wick family. This residence hall houses just 32 students, and is reserved for students who have lived on campus for at least one year. Due to its historic nature, each room is unique in shape and size. More information about the building, including floor plans and other building amenities, can be found on our website (https://ysu.edu/housing-and-residence-life/wick-house/).

WELLER HOUSE
Weller House underwent renovations in 2017, and features 16 efficiency apartments. In order to best meet the needs of our students, this building is reserved for graduate students or students with families (couples or those with children). Apartments range in size from studios to three-bedroom apartments. Each features a full kitchen, living/dining space, and full bathroom, in addition to the bedroom areas. The basement also features a newly updated community playroom with TV and sitting area. While students living in this building are exempt from the Penguin Tuition Promise, they are also not required to have meal plans. Our rates are also very competitive. More information about the building, including floor plans and other building amenities, can be found on our website (https://ysu.edu/housing-and-residence-life/weller-house/).

UNIVERSITY COURTYARD APARTMENTS
In 2011, YSU took on ownership of the University Courtyard Apartments. The apartments are run by a contracted company called RISE management, who oversee all operations of the building, including billing, contracts, communication with students, and more. These two apartment buildings are located in the Wick Oval area, just minutes away from the center of campus and adjacent to Bliss Hall. The apartments include, two, and four-bedroom apartments and each apartment comes equipped with an upgraded appliance package that includes stainless steel full size refrigerator, stove, microwave and dishwasher. The rent is all-inclusive, which means the residents pay one amount for everything including all utilities, Wi-Fi, high-speed internet access and basic cable TV, and charges are applied to the student’s University bill, so all financial aid can be applied directly towards rent costs.

CHRISTMAN DINING COMMONS
Christman Dining Commons, commonly referred to as “Christman” is located adjacent to both Lyden House and Cafaro House. Seating 300 people at a time, the staff can serve up to 600 people per meal period. Most days, Christman hosts three traditional meal times (breakfast, lunch, and dinner), while on some nights they also feature a “late-night” option. Christman offers a wide variety of menu options to campus residents, from self-serve cold foods, beverages, and snack selections to staff-served grille specialties and hot entrees. Students can build their own stir-fry daily, while those with food allergies or dietary restrictions can work directly with the chef on meals that meet their needs.

Students living in Kilcawley, Lyden, Cafaro, and Wick Houses are all required to have a meal plan, which is included in their room and board charges. Each meal plan consists of three types of funds: meal swipes for use at Christman, Flex Dollars for use at any other campus dining location, and Pete’s Points to be used at any other campus dining location, as well as some off-campus dining locations with whom we partner.

Commuter students, those living in nearby apartments, staff, and faculty, are also welcome to purchase meal plans, visit Christman Dining Common, or visit any of the other many campus dining options. Daily meal rates, menu options, and more can be found on our website (https://www.dineoncampus.com/ysu/).

University Housing Partners
In addition to the University Courtyards Apartments, YSU has strong relationships with the managers of other local apartment buildings that primarily serve YSU students. If you are interested in other housing options than those listed above, you can find more information about some of these options on our website (https://ysu.edu/housing-and-residence-life/campus-housing-options/).

Parking Services
The parking system for students is divided into two categories, transportation fee and penguin promise.

YSU students who arrived on campus prior to summer of 2018 are in the transportation fee category. These students if enrolled in 6+ credit hours will be assessed a $115 transportation fee which included a parking permit. Students in the transportation fee category who are registered for less than 6 hours may opt in to the fee by purchasing a permit at $115. All students must log into the current semester in the YSU portal and follow the link to parking services in order to obtain a permit.

YSU students who arrived on campus for summer 2018 or after are in the penguin promise category. Penguin promise students may purchase a parking permit through the YSU portal. Commuter permits, valid 7AM – 11PM daily are $45. Overnight permits, valid 24 hours a day in overnight parking lots are $90. All students must log into the current semester in the YSU portal and follow the link to parking services in order to obtain a permit.

Parking permits are required at all times in all lots and spaces on the YSU campus.

Parking areas are designated as follows:
M-Mixed Parking (faculty, staff, and students)
R-Resident Parking
F-Faculty/Staff Parking
S-Student Parking

Parking facilities for students include two parking decks and surface lots. Although some lots are designated for faculty/staff parking during the day, after 5 p.m. daily, most F-lots become mixed (except the F-1 lot on University Plaza).

Street parking is under the jurisdiction of the city of Youngstown. Tickets received for street parking violations must be appealed to the city. For more information, call the Parking Office at (330) 941-3546.

The current parking regulations can be found on the YSU Parking (http://cms.ysu.edu/administrative-offices/parking-services/parking-services/) web page.

For information on registration of vehicles and applicable fees, see the Tuition, Fees, and Charges section of this catalog.

Motorists’ Assistance Program
Parking Services offers on-campus help with jump starts and lockouts to anyone with a valid YSU parking permit. The MAP will also lend out lug
wrenches, jack stands, and gas cans. To contact the MAP program and shuttle service, call (330) 941-3051 or stop at any staffed parking booth.

Disability Parking

All students who wish to utilize YSU handicap parking must bring their valid state handicap registration to Parking Services in order to receive a handicap sticker. Once the sticker is applied to your permit, you may utilize all handicap parking on campus.

If a handicap permit registered to someone other than the YSU parking permit holder is used in conjunction with the YSU parking permit, it is invalid for parking in handicap spaces on campus.

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Student Activities

Youngstown State University offers a broad range of campus activities geared toward enriching and expanding the student experience beyond the classroom. Participating in student government, intramurals, student publications, art and music groups, and student organizations gives students opportunities to make new friends; meet people from backgrounds, cultures, and perspectives different from their own; develop leadership skills; and balance the demands of university life with the need for relaxation and recreation. Student programming offerings include Welcome Week, Homecoming, YSU Serves Week, and other events throughout the year.

For more information visit the Student Activities page.

Penguin Productions

Penguin Productions is a student group under the Division of Student Affairs charged with assessing, initiating, implementing, and evaluating major events for over 11,000 students on the campus of Youngstown State University.

Penguin Productions conducts campus-wide assessments of students’ entertainment interests and identifies possible performers and venues. Performers such as Zac Brown Band, Judah & the Lion, Migos, and Andy Grammer have come to campus or the downtown Covelli Centre. Penguin Productions plans Fall Fire Fest and Federal Frenzy, two campus traditions.

Working with Penguin Productions carries no academic credit or pay, but participants get a behind-the-scenes look at events planning, concert staging, ticket management, and other concert business, including meeting the performers.

For more information about upcoming events or becoming a Penguin Productions board member, please call (330) 941-3575.

Student Organizations

There are over 200 student organizations ranging from academic and social awareness to cultural organizations, Greek Life organizations, and Student Government. Students are invited to take the first step and discover something that engages their interests. Students can also create their own, brand new student organization! Student organization mailboxes are located in the Student Activities Office, Kilcawley Center.

The following is a partial list of the organizations available at YSU. A complete searchable listing of registered student organizations at YSU, is available on the Student Organization Directory web page.

- Actuarial Science Club
- Alpha Kappa Alpha Sorority
- Alpha Omicron Pi Sorority
- Alpha Phi Delta Fraternity
- Alpha Psi Omega
- Alpha Xi Delta Sorority
- American Institute of Chemical Engineers
- American Marketing Association
- American Society of Civil Engineers
- American Society of Mechanical Engineers
- Anthropology Colloquium
- Armed Forces Student Organization
• Black Student Union
• Bowling Club
• Catholic Student Association
• Chi Alpha
• Club of Jewish Culture
• College Conservatives
• College Democrats
• Dana Flute Society
• Dana Guitar Association
• Dance Club
• Dance Ensemble
• Delta Sigma Theta Sorority
• Delta Zeta Sorority
• Dungeons and Dragons Club
• Economics Club
• Enactus
• Exercise Science Majors Club
• Film Club
• French Club
• Gerontology Student Organization
• Guinathon
• Guins Against Cancer
• Greek Campus Life
• Health Education and Physical Education Club
• Hospitality Management Society
• Institute of Electrical and Electronic Engineers
• Institute of Industrial Engineers
• Interfraternity Council
• International Business Organization
• InterVarsity Christian Fellowship
• Indian Student Association
• Italian Club
• National Alliance on Mental Illness on Campus
• National Pan-Hellenic Council (NPHC)
• Ohio Collegiate Music Educators Association
• Orthodox Christian Fellowship
• Panhellenic Council
• Pella Penguins
• Philosophy and Religious Studies Club
• Phi Mu Alpha Sinfonia (Music)
• Phi Sigma Rho Engineering Sorority
• Relay for Life
• Rookery Radio
• Room of Requirement
• Rotaract
• Saxophone Society
• Sigma Alpha Epsilon Fraternity
• Sigma Chi Fraternity
• Sigma Tau Gamma Fraternity
• Slavic Student Association
• Society of Automotive Engineers
• Society of Human Resource Management
• Sociology Club
• Spanish Club (Los Buenos Veciños)
• STEM Leadership Society
• American Dental Hygienists Association (ADHA) (SADHA)
• Student Athlete Advisory Committee (SAAC)
• Student Organization for Respiratory Care
• Student Physical Therapy Association
• Student Social Work Association
• Students in Dietetics
• Students In Fashion and Interiors
• Theta Chi Fraternity
• Urban Gaming Club
• Unscripted: An Improv Club
• Youngstown Penguin Hackers
• YSUnity
• YSUscrape
• Zeta Tau Alpha Phi Beta Sorority

Greek Life
Greek Life at YSU affords students the opportunity to gain leadership experience and develop a positive social outlet. There are 11 Interfraternity, National Pan-Hellenic Council, and Panhellenic groups from which to choose.

For more information visit the Greek Life page.

Student Government Association
The student body of Youngstown State University is represented by Student Government, which operates under constitutional powers granted by the University. The legislative branch of Student Government is composed of representatives from the five six undergraduate colleges and the School of Graduate Studies and Research, in proportion to the enrollment of each. All meetings of student government representatives are open to the student body.

Student Government exercises the power to conduct student elections, to recommend students to serve as members of joint faculty-student committees, and to supervise programs financed from its operating budget.

Student Government selects nominees for the two student positions of the University Board of Trustees.

For more information visit the Student Government page.

Student Media
The University supports multiple student media outlets. Students can showcase their talents through The Guin, a digital yearbook; The Jambar, a weekly newspaper; The Penguin Review, an annual literary magazine; The Yo Magazine, an annual magazine; JambarTV, a weekly news broadcast; and Rookery Radio, an online radio station.

Student media is student run. Policies and procedures concerning student publications are prepared, reviewed and applied by the Student Media Committee.

Department of Campus Recreation - Andrews Student Recreation and Wellness Center
The Department of Campus Recreation provides diverse and intentional programming to meet the YSU community with diverse needs of our students and the goal of creating a recreational environment that is safe, inclusive, and accessible for users. Our commitment is to provide patrons of all races, ethnicities, genders, sexualities, abilities, religions, sizes, and ages with educational wellness experiences. In doing so, we aim to build and support the physical, mental, and social well-being of the Penguin community.

CAMPUS RECREATION OFFERINGS INCLUDE:
• A State of the Art facility including:
  • a 53’ Rock Wall
  • 160 Pieces of Strength & Conditioning Equipment
  • 4 Basketball/Volleyball Courts
  • 1/8 mile track
  • Aerobics Studio/Functional Training Area
  • Adventure Rec Resource Center
  • Elevated Challenge Ropes Course
  • Meditation Studio
  • Racquetball Court
  • SPINNING Studio
  • Wellness Resource Center
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• Intramural Programs
• Memberships
• Personal Training
• Stress Relief Programs
• Youth Programs
• Birthday Parties
• Pete & Penny’s Summer Camps
• Teambuilding Opportunities

For more information on all our programs and services please visit https://ysu.edu/campus-recreation

Art
The Art Program Department offers numerous courses that are open to all university students. It also hosts multiple art exhibitions in spaces across campus, including those housed in in Bliss Hall, the John J. McDonough Museum of Art, and Tod Hall. All students are encouraged to visit and explore the diverse artwork that is created and displayed regularly on YSU's campus. Student and faculty art exhibitions, including two annual graduating BFA exhibitions, are held on the YSU campus. The McDonough Museum also works on the national mid-year, to which students are encouraged to submit work. The Judith Rae Solomon Gallery, located on the 2nd floor of the Cliffe College of Creative Arts/Biss Hall, is used throughout the year for various student, faculty, and visiting artist exhibitions. The Student Project Gallery, located in the lower addition of Bliss Hall, is a space dedicated to student art exhibitions. The Student Art Association sponsors an annual exhibition of the work of Youngstown State University students. Each spring, the work is displayed at the McDonough Museum of Art, with awards provided by various donors. Other area venues also exhibit student work, including The Oakland Center for the Arts, Trumbull Art Gallery, and the Art Outreach Gallery at the Eastwood Mall. For more information about how you may become involved in Art at YSU, please visit the Department of Visual and Dramatic Arts.

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Theatre & Dance
In addition to academic course offerings, Theatre & Dance Program offers all YSU students opportunities to perform on stage, work in tech and design areas, and participate in student film productions. Auditions, workshops, and productions are regularly scheduled throughout the academic year. Department updates and information on how to get involved can be found on the department’s Facebook page – YSU Department of Theatre and Dance. Production season and academic programming updates can also be found at https://ysu.edu/academics/cliffe-college-creative-arts-and-communication/theatre-majors. Attendance at all Theatre & Dance Program productions is free to YSU students.

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YSU Annual Awards

The University has established a series of awards to recognize excellence and to encourage participation in campus life. The awards are presented annually at the Student Activities Awards Banquet in the spring. Each year students, faculty, and staff are invited to nominate outstanding individuals and organizations for these prestigious awards. Selections will be made by a committee composed of students, faculty, and staff. Details regarding this program and the different awards listed below may be obtained from the Student Activities Office.

BERNADEINE MARINELLI MEMORIAL SCHOLARSHIP

The Bernadine Marinelli Memorial Scholarship is awarded to an outstanding student supervisor in the Division of Student Experience in memory of an exceptional educator and student advocate. Ms. Marinelli, the first female high school principal in the Youngstown City School District, was a dynamic person who helped many students to reach their potential.

CARDINAL NEWMAN SERVICE AWARD

The Cardinal Newman Award is given to a graduating senior who, through service to the Newman Center, Catholic Student Association, the Youngstown State University as a whole, and to the wider community, has embodied Cardinal Newman’s motto, thus allowing their own feats to be spoken to others in service and in recognition of the responsibility we each have to care for our neighbor.

CONSTELLATION AWARD-OUTSTANDING UNIVERSITY-WIDE PROGRAMS

This award recognizes an outstanding University-wide event sponsored by a registered YSU student organization. The program must be distinguished by its inclusion of the University community and the program’s contribution to the quality of student life.

DECRANE-HOUSER AWARD

Scholarship for a student who has been active at the Newman Center. It is in honor of Arthur DeCrane, who was the first Catholic campus minister for Youngstown College and also for the late Judge William Houser, who was active in the Newman Center while going to school here. Judge Houser’s family donated a large sum of money to make this scholarship available upon his death.

EMERGING LEADER PROGRAM

The Emerging Leader Program provides sophmore students with an opportunity to develop and refine the knowledge and skills essential to leadership. Students who complete the program receive designation on their official University transcript, cords for their academic regalia, and a YSU Leadership medallion pin.

GILLESPIE-PAINTER AWARD

To recognize outstanding achievement in support of the Division of Student Affairs at YSU beyond the scope of assigned duties. All members of the Division of Student Affairs are eligible for this award.

THE JOHN J. GOCALA SERVICE AWARD

The John J. Gocala Service Award was established by the Student Government Association during the 2008-09 academic year to recognize the commitment and contributions of John J. Gocala during his tenure as YSU Police Chief.

The intent of the award is to recognize one individual within the university community who has gone above and continues to go above and beyond the call of duty to serve the first-class reputation and traditions of Youngstown State University.

The individual must truly work to preserve the best interests of the YSU campus and community.
KOCINSKI AWARD

The Kocinski Award is given in honor of Marilyn Kocinski, who taught dance at YSU in the Department of Human Performance and Exercise Science from 1960 to 1983.

Her family was responsible for instituting the award in the late 1990s in her memory. The award is presented to a senior student who has played a significant role as a student leader in the YSU Dance Ensemble and who demonstrates academic integrity as well as artistry and creativity in the field of dance.

LIBRA AWARD-OUTSTANDING ADVISOR

The Libra Award is presented to the outstanding faculty/staff advisor of a registered student organization. The award is designed to recognize the contributions and commitment to furthering student leadership development made by advisors.

DR. MARTIN T. "MARTY" MANNING AWARD

The Martin T. "Marty" Manning Award, established during the 2010-2011 academic year by the Student Government Association, is in honor of the late Dr. Martin T. "Marty" Manning. The award is in recognition of the superior student mentoring of Dr. Manning.

The award is given to a full- or part-time student, administrator, faculty or staff member, or alumnus/a who has exemplified the student-mentoring capacity that Dr. Manning so consistently displayed throughout his Youngstown State University career.

DR. CHARLES A. MCBRIARTY AWARD

This award was established by Student Government during the 1992-93 school year to recognize and remember the commitment and contributions to students and student services by Dr. Charles McBriarty during his tenure as Vice President for Student Affairs. Its intent is to recognize individuals within the university community who have a reputation for being exceptionally student-oriented and who possess the traits, ethics, and friendly style exhibited by Dr. McBriarty.

EDNA K. MCDONALD CULTURAL AWARENESS AWARD

Award to recognize an outstanding individual who has made a lasting contribution to encourage and increase awareness of cultural diversity at Youngstown State University. All faculty, staff, students, and members of the extended YSU community are eligible for the award.

THE HARRY M. MESHEL LEGACY AWARD

The Harry M. Meshel Legacy Award, established during the 2017-2018 academic year by the Student Government Association, is in honor of the late Mr. Harry M. Meshel. An influential political figure, Mr. Meshel made immense contributions to the valley that simply cannot be measured. This award is in recognition of the values of: public service, civics, education, culture, and dedication to one’s hometown, each of which he brilliantly possessed.

This award is bestowed upon a Youngstown State University student, who may or may not be a member of the Student Government Association. The individual must have displayed the qualities Mr. Meshel encompassed, specifically the commitment to public service for the Greater Youngstown Community.

MENTOR OF THE YEAR

This award honors the faculty or staff mentor who has contributed the most during the past year to the development of a YSU student.

MULTICULTURAL LEADERSHIP AWARD

The Multicultural Leadership Award recognizes up to two minority students who have achieved academic success and demonstrated effective leadership in promoting cultural awareness to the campus and community.

NOVA AWARD-OUTSTANDING NEW STUDENT ORGANIZATION

Recognizes a newly registered student organization exhibiting initiative in organizational development and strong potential to contribute to the quality of life as a recognized student organization at Youngstown State University.

ORION AWARD-OUTSTANDING STUDENT ORGANIZATION

The Orion Award recognizes an exceptional student organization for its outstanding leadership and service to the University community during the current academic year.

PRESIDENT CYNTHIA E. ANDERSON LIFETIME ACHIEVEMENT AWARD

Awarded to a full-time student who has exhibited an extended commitment and dedication to serving the student body through various positions on Student Government.

SIRIUS AWARD-STUDENT EMPLOYEE OF THE YEAR

This award recognizes student employees who have made outstanding contributions to their employers and demonstrated skills and commitment above and beyond expectations.

SMITH-MURPHY AWARD

The award shall be given to one full-time faculty member each year. The recipient shall possess the qualities of Lester Smith and Gratia Murphy and display a genuine concern for the well-being and success of the students he or she teaches.

REBECCA BANKS SPIRIT AWARD

Given by Student Government to a member of the campus or Youngstown metropolitan community who has displayed the same level of enthusiasm for the work of YSU Student Government or campus community as Rebecca over the past academic year.

STUDENT SERVICE AWARD

To recognize an outstanding individual who has demonstrated exceptional commitment to the students of YSU. All faculty, staff (excluding all members within the Division of Student Affairs), and members of the University community are eligible for this award.

GINA TENNEY MEMORIAL SCHOLARSHIP

Gina Tenney was one of YSU's best and most dedicated students. Before her tragic death in 1985, Gina had been actively involved in campus life and had achieved excellent academic standing. She served in Student Government and was a student assistant in the Student Services Office. She was also active in the University Theater Department. In honor of Gina's memory, the Gina Tenney Memorial Scholarship Fund was established in January of 1986 by the YSU Student Government.
YSU PIN

Begun 70 years ago, in 1948, the YSU pin recognizes up to five graduating seniors who have achieved academic success and demonstrated outstanding leadership, motivation, and creativity in University and community activities.

THE LUKE N. ZACCARO AWARD

The Luke Zaccaro Award is given to a YSU student who may be a member of Student Government. The individual should have done something exceptional for the university, Student Government, or fellow students during the course of the current year.

Other Awards and Prizes

YSU LEADERSHIP SCHOLARSHIP

The YSU Leadership Scholarship recognizes outstanding students for their contribution to and leadership in campus activities. Each year up to seven students are awarded $600 for Fall tuition and fees.

THE GREEK CAMPUS LIFE AWARDS FOR SCHOLARSHIP

Given annually to the fraternity and sorority chapter with the highest aggregate point index and to the member of a fraternity with the highest individual point index, based on the academic work of the previous two semesters. The awards are presented during the spring semester at the annual Greek Sing competition.

Youngstown State University offers a broad range of campus activities geared toward enriching and expanding the student experience beyond the classroom. Participating in student government, intramurals, student publications, art and music groups, and student organizations gives students opportunities to make new friends; meet people from backgrounds, cultures, and perspectives different from their own; develop leadership skills; and balance the demands of university life with the need for relaxation and recreation. Student programming offerings include Welcome Week, Homecoming, YSU Serves Week, and other events throughout the year.

For more information visit the Student Activities (http://cms.ysu.edu/administrative-offices/student-activities/student-activities/) page.

Penguin Productions

Penguin Productions is a student group under the Division of Student Affairs charged with assessing, initiating, implementing, and evaluating major events for over 11,000 students on the campus of Youngstown State University.

Penguin Productions conducts campus-wide assessments of students’ entertainment interests and identifies possible performers and venues. Performers such as Zac Brown Band, Judah & the Lion, Migos, and Andy Grammer have come to campus or the downtown Covelli Centre. Penguin Productions plans Fall Fire Fest and Federal Frenzy, two campus traditions.

Working with Penguin Productions carries no academic credit or pay, but participants get a behind-the-scenes look at events planning, concert staging, ticket management, and other concert business, including meeting the performers.

For more information about upcoming events or becoming a Penguin Productions board member, please call (330) 941-3575.

Student Organizations

There are over 200 student organizations ranging from academic and social awareness to cultural organizations, Greek Life organizations, and Student Government. Students are invited to take the first step and discover something that engages their interests. Students can also create their own, brand new student organization! Student organization mailboxes are located in the Student Activities Office, Kilcawley Center.

The following is a partial list of the organizations available at YSU. A complete searchable listing of registered student organizations at YSU is available on the Student Organization Directory (http://cms.ysu.edu/administrative-offices/student-activities/student-organization-directory/) web page.

• Actuarial Science Club
• Alpha Kappa Alpha Sorority
• Alpha Omicron Pi Sorority
• Alpha Phi Delta Fraternity
• Alpha Psi Omega
• Alpha Xi Delta Sorority
• American Institute of Chemical Engineers
• American Marketing Association
• American Society of Civil Engineers
• American Society of Mechanical Engineers
• Anthropology Colloquium
• Armed Forces Student Organization
• Black Student Union
• Bowling Club
• Catholic Student Association
• Chi Alpha
• Club of Jewish Culture
• College Conservatives
• College Democrats
• Dana Flute Society
• Dana Guitar Association
• Dance Club
• Dance Ensemble
• Delta Sigma Theta Sorority
• Delta Zeta Sorority
• Dungeons and Dragons Club
• Economics Club
• Enactus
• Exercise Science Majors Club
• Film Club
• French Club
• Gerontology Student Organization
• Guinathon
• Guins Against Cancer
• Greek Campus Life
• Health Education and Physical Education Club
• Hospitality Management Society
• Institute of Electrical and Electronic Engineers
• Institute of Industrial Engineers
• Interfraternity Council
• International Business Organization
• InterVarsity Christian Fellowship
• Indian Student Association
• Italian Club
• National Alliance on Mental Illness on Campus
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• Ohio Collegiate Music Educators Association
• Orthodox Christian Fellowship
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• Pella Penguins
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• Lambda Pi Eta - Communications Studies
• National Society of Collegiate Scholars
• Omega Chi Epsilon - Chemical Engineering
• Omicron Delta Kappa - Leadership
• Order of Omega - Greek Letter Honor Society
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• Phi Epsilon Kappa - Physical Education
• Phi Kappa Phi - National Honor Society for achievement in all fields
• Pi Mu Epsilon - Mathematics Honorary
• Pi Sigma Alpha - Political Science
• Psi Chi - Honorary Psychology
• Sigma Alpha Lambda - National Leadership and Honors Organization
• Sigma Pi Alpha - Human Resource Management
• Sigma Theta Tau - Nursing
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The Bernadine Marinelli Memorial Scholarship is awarded to an outstanding student supervisor in the Division of Student Experience in memory of an exceptional educator and student advocate. Ms. Marinelli, the first female high school principal in the Youngstown City School District, was a dynamic person who helped many students to reach their potential.

Cardinal Newman Service Award
The Cardinal Newman Award is given to a graduating senior who, through service to the Newman Center, Catholic Student Association, the Youngstown State University as a whole, and to the wider community, has embodied Cardinal Newman’s motto, thus allowing their own feats to be spoken to others in service and in recognition of the responsibility we each have to care for our neighbor.

Constellation Award-Outstanding University-wide Programs
This award recognizes an outstanding University-wide event sponsored by a registered YSU student organization. The program must be distinguished by its inclusion of the University community and the program’s contribution to the quality of student life.

DeCrane-Houser Award
Scholarship for a student who has been active at the Newman Center. It is in honor of Arthur DeCrane, who was the first Catholic campus minister for Youngstown College and also for the late Judge William Houser, who was active in the Newman Center while going to school here. Judge Houser’s family donated a large sum of money to make this scholarship available upon his death.

Emerging Leader Program
The Emerging Leader Program provides sophomore students with an opportunity to develop and refine the knowledge and skills essential to leadership. Students who complete the program receive designation on their official University transcript, cords for their academic regalia, and a YSU Leadership medallion pin.

Gillespie-Painter Award
To recognize outstanding achievement in support of the Division of Student Affairs at YSU beyond the scope of assigned duties. All members of the Division of Student Affairs are eligible for this award.

The John J. Gocala Service Award
The John J. Gocala Service Award was established by the Student Government Association during the 2008-09 academic year to recognize the commitment and contributions of John J. Gocala during his tenure as YSU Police Chief. The intent of the award is to recognize one individual within the university community who has gone above and continues to go above and beyond the call of duty to serve the first-class reputation and traditions of Youngstown State University.

The individual must truly work to preserve the best interests of the YSU campus and community.

Kocinski Award
The Kocinski Award is given in honor of Marilyn Kocinski, who taught dance at YSU in the Department of Human Performance and Exercise Science from 1960 to 1983.

Her family was responsible for instituting the award in the late 1990s in her memory. The award is presented to a senior student who has played a significant role as a student leader in the YSU Dance Ensemble and who demonstrates academic integrity as well as artistry and creativity in the field of dance.

Libra Award-Outstanding Advisor
The Libra Award is presented to the outstanding faculty/staff advisor of a registered student organization. The award is designed to recognize the contributions and commitment to furthering student leadership development made by advisors.

Dr. Martin T. "Marty" Manning Award
The Martin T. "Marty" Manning Award, established during the 2010-2011 academic year by the Student Government Association, is in honor of the late Dr. Martin T. "Marty" Manning. The award is in recognition of the superior student mentoring of Dr. Manning.

The award is given to a full- or part-time student, administrator, faculty or staff member, or alumnus/a who has exemplified the student-mentoring capacity that Dr. Manning so consistently displayed throughout his Youngstown State University career.

Dr. Charles A. McBriarty Award
This award was established by Student Government during the 1992-93 school year to recognize and remember the commitment and contributions to students and student services by Dr. Charles McBriarty during his tenure as Vice President for Student Affairs. Its intent is to recognize individuals within the university community who have a reputation for being exceptionally student-oriented and who possess the traits, ethics, and friendly style exhibited by Dr. McBriarty.
Edna K. McDonald Cultural Awareness Award
Award to recognize an outstanding individual who has made a lasting contribution to encourage and increase awareness of cultural diversity at Youngstown State University. All faculty, staff, students, and members of the extended YSU community are eligible for the award.

The Harry M. Meshel Legacy Award
The Harry M. Meshel Legacy Award, established during the 2017-2018 academic year by the Student Government Association, is in honor of the late Mr. Harry M. Meshel. An influential political figure, Mr. Meshel made immense contributions to the valley that simply cannot be measured. This award is in recognition of the values of: public service, civics, education, culture, and dedication to one's hometown, each of which he brilliantly possessed.

This award is bestowed upon a Youngstown State University student, who may or may not be a member of the Student Government Association. The individual must have displayed the qualities Mr. Meshel encompassed, specifically the commitment to public service for the Greater Youngstown Community.

Mentor of the Year
This award honors the faculty or staff mentor who has contributed the most during the past year to the development of a YSU student.

Multicultural Leadership Award
The Multicultural Leadership Award recognizes up to two minority students who have achieved academic success and demonstrated effective leadership in promoting cultural awareness to the campus and community.

Nova Award-Outstanding New Student Organization
Recognizes a newly registered student organization exhibiting initiative in organizational development and strong potential to contribute to the quality of life as a recognized student organization at Youngstown State University.

Orion Award-Outstanding Student Organization
The Orion Award recognizes an exceptional student organization for its outstanding leadership and service to the University community during the current academic year.

President Cynthia E. Anderson Lifetime Achievement Award
Awarded to a full-time student who has exhibited an extended commitment and dedication to serving the student body through various positions on Student Government.

Sirius Award-Student Employee of the Year
This award recognizes student employees who have made outstanding contributions to their employers and demonstrated skills and commitment above and beyond expectations.

Smith-Murphy Award
The award shall be given to one full-time faculty member each year. The recipient shall possess the qualities of Lester Smith and Gratia Murphy and display a genuine concern for the well-being and success of the students he or she teaches.

REBECCA BANKS Spirit Award
Given by Student Government to a member of the campus or Youngstown metropolitan community who has displayed the same level of enthusiasm for the work of YSU Student Government or campus community as Rebecca over the past academic year.

Student Service Award
To recognize an outstanding individual who has demonstrated exceptional commitment to the students of YSU. All faculty, staff (excluding all members within the Division of Student Affairs), and members of the University community are eligible for this award.

Gina Tenney Memorial Scholarship
Gina Tenney was one of YSU's best and most dedicated students. Before her tragic death in 1985, Gina had been actively involved in campus life and had achieved excellent academic standing. She served in Student Government and was a student assistant in the Student Services Office. She was also active in the University Theater Department. In honor of Gina’s memory, the Gina Tenney Memorial Scholarship Fund was established in January of 1986 by the YSU Student Government.

YSU Pin
Begun 70 years ago, in 1948, the YSU pin recognizes up to five graduating seniors who have achieved academic success and demonstrated outstanding leadership, motivation, and creativity in University and community activities.

The Luke N. Zaccaro Award
The Luke Zaccaro Award is given to a YSU student who may be a member of Student Government. The individual should have done something exceptional for the university, Student Government, or fellow students during the course of the current year.

Other Awards and Prizes

YSU Leadership Scholarship
The YSU Leadership Scholarship recognizes outstanding students for their contribution to and leadership in campus activities. Each year up to seven students are awarded $600 for Fall tuition and fees.

The Greek Campus Life Awards for Scholarship
Given annually to the fraternity and sorority chapter with the highest aggregate point index and to the member of a fraternity with the highest individual point index, based on the academic work of the previous two semesters. The awards are presented during the spring semester at the annual Greek Sing competition.

Student Services
Career Exploration and Development
The Office of Career Exploration and Development provides individualized career and exploratory advising for YSU students and alumni.

Exploratory Advisors will help you identify required general education coursework while you explore majors, careers, and opportunities to get involved at YSU.

- This program helps to assure you will not waste time, money or energy while identifying your major/career path and establishing long-term goals.

Self-Assessment
Complete self-assessment tools with your Career Development Coordinator and begin to identify your VIPS. These tools will help you choose the best major!

- Values >> Interests >> Personality >> Strengths

Career Development Services
Learn how to build your professional brand with a Coordinator or Career Peer.
Handshake Job/Internship Posting Board

Set yourself up for success with YSU’s professional social network.

- Introduce yourself by customizing your Handshake professional profile
- Upload your resume to easily apply for local and national positions
- Have your professional brand reviewed and receive feedback from experts

Join Handshake by following this link (https://ysu.joinhandshake.com/login (https://ysu.joinhandshake.com/login/))

For more information, visit Career Exploration and Development (http://www.ysu.edu/oced (http://www.ysu.edu/oced/)) on the web.

Counseling Services

YSU Student Counseling Services (SCS) provides free, short term, confidential mental health counseling, consultation, outreach, and referral services to our currently enrolled students. Common issues that we address include anxiety, depression, stress, relationship concerns, difficulty managing multiple roles, and other issues. SCS is located in Kilcawley Center, Suite 2110. We are open Monday - Friday, 8:00 a.m. - 5:00 p.m. Call (330) 941-3737 or stop in to schedule an appointment. See our website Student Counseling Services (http://www.ysu.edu/student-counseling-services/) for more information and resources.

SCS has an after-hours phone line. You can call and speak with a mental health professional who can assist with immediate support, crisis intervention and stabilization. (This is not for scheduling appointments or leaving messages). To access, call SCS at (330) 941-3737 and after the brief message, press “1” to be connected to a mental health professional. This is available to all currently registered YSU students or anyone concerned about a currently registered student.

Childcare

Students who have younger children may wish to place them in on-campus childcare centers while in class or when on campus.

Wee Care Day Care and Learning Centre is the official provider of childcare services to Youngstown State University students, faculty, staff, and alumni. Special discounted rates are available and we accept ODJFS contracts as well. Wee Care Day Care and Learning Centre provides up to two (5 days a week/ all day) childcare scholarships per year to current YSU students with a minimum of 3.0 GPA. Applications are collected at the end of Spring semester for the upcoming year.

The Centre has a professionally trained staff that takes care of children ages six weeks to 10 years, including preschool and pre-K State approved curriculum based programs. The Centre is located in Fedor Hall and is open from 5:00 a.m. to 9:00 p.m. The phone number is (330) 941-2936.

Wee Care is equipped with 24-hour-a-day video monitoring and a very strict sign-in and sign-out policy. Besides the convenience of its on campus location, Wee Care has six other locations throughout Mahoning and Trumbull County. Students especially like the flexible scheduling options to meet their university needs.

Students may also be eligible for child care through the Mahoning County Educational Service Center, which has day care facilities throughout Mahoning County, including one on the YSU campus. Please go to the ESC of Eastern Ohio website (https://www.esceasternohio.org/content/preschool/) for more information.

Partial reimbursement is also available to University students for either Wee Care Day Care Learning Centre or other licensed off-campus day care facilities. Contact the Office of Financial Aid and Scholarships at (330) 941-3501 for more information. You can also go to the YSU Day Care Assistance Application webpage (https://cfweb.cc.ysu.edu/finaid/daycare/app_daycare.cfm).

For more information, visit Wee Care Day Care (http://www.weecareohio.com/ partners.html).

Dean of Students

The Office of the Dean of Students (DOS) provides support, education, guidance, and advocacy to all members of our campus community. In support of YSU’s commitment to “place students at its center,” this office is dedicated to ensuring that individuals have a centralized point of contact to discuss extenuating situations and concerns, specifically those related to mental and physical health, hospitalizations, food and housing insecurities, challenging family situations, issues with faculty or staff members, or any other barriers that may impede their success, while maintaining campus safety and fostering a culture of civility, character, and respect.

The DOS team is comprised of professionals from three critical areas that work together to assist students: Student Counseling Services, Community Standards & Student Conduct, and Student Advocacy & Support. Additionally, the YSU CARE (Concern – Assessment – Referral – Education) Team, managed by the Dean of Students, addresses issues of a serious nature that may pose a threat to the safety of a student or the overall campus community. We accept and encourage referrals from students, their families, faculty, staff, and the surrounding community, with the goal of providing advocacy, guidance, and assistance. You may submit a referral to the CARE Team via the Penguin of Concern Referral Form.

IMPORTANT: All members of the YSU community have a responsibility to report any situation that could possibly result in harm to self or others. However, the “Penguin of Concern Referral Form” should not be used to report crisis situations in which a person poses an active or immediate risk of harm. In these situations, the YSU Police Department should be contacted immediately at 330-941-3527 (or 911 from a campus phone).

Visit the Office of the Dean of Students website (https://ysu.edu/student-affairs/dean-of-students/).

Kilcawley Center

Since its opening in April 1974, Kilcawley Center has served as the heart of campus. This not only refers to its central location on campus, but also to the many services, conveniences, programs, and amenities it provides to the University community. The Center’s casual atmosphere, comfortable lounges, and attractive dining areas focus on making free-time activity an integral part of a YSU education. Through cultural, social, and recreational programming, Kilcawley Center provides for rich and diverse experiences for YSU students.

Visit Kilcawley Center (http://www.kc.ysu.edu) for details on services, hours of operation, staff directory, and the daily calendar of events.

Kilcawley Center’s study lounges are known for their comfortable chairs and couches that are perfect for studying or relaxing. The lounges and restaurant dining areas in Kilcawley Center provide high-speed wireless internet access. The Center offers convenient ATM banking, and offices for Student Government, Student Media, and Rookery Radio. Kilcawley Center houses sixteen seminar rooms and a large multi-purpose room. On a daily basis, these rooms host luncheons, workshops, seminars, lectures, organization meetings, and programs.

Dining on Campus

Kilcawley Center offers diverse choices in dining:
Available services include:

- YSU Wendy's with all your favorite burgers, fries, the classic Frosty and more.
- Jamba Juice (smoothies, juices, and steel cut oatmeal)
- KC Food Court for a variety of delicious choices.
- Dunkin' Donuts
- Hissho Sushi (Freshly prepared sushi daily on-site is the way we roll. Everyday our chefs prepare delicious sushi that will keep you happy and healthy.)

Visit Dine On Campus (http://www.dineoncampus.com/ysu/) for meal plans, catering, campus places to eat, and today’s menus including sustainability and nutritional information.

Pete’s Treats & More is a popular place for quick snacks and beverages, and single-dose healthcare items. Visit Pete’s Treats & More to choose delicious chocolates, cookies, snack cakes, and your favorite energy drinks. Pete’s Treats & More is located on the lower level of Kilcawley Center.

Meal Plans

Campus Meal Plans are available for purchase and are offered with a variety of dining options. To find out about meal plans, see frequently asked meal plan questions, or to purchase a meal plan, visit the YSU Y Card (https://ycard.ysu.edu/) site. Adding Pete's Points to your Y Card will allow you to debit your purchases at any Kilcawley dining location including Pete's Treats & More. Pete's Points are also accepted at many nearby locations both on and off campus and through Grubhub. For a list of on- and off-campus locations that accept Pete's Points, go to the Y Card site (https://ycard.ysu.edu/).

Visit the Penguin Xing for more information. Visit the YSU Y Card (https://ycard.ysu.edu/) site to add Pete’s Points or Flex Dollars on the fly.

Catering

Chartwells provides a full catering menu for small group functions to large dinner buffets. Once you have secured a room reservation in Kilcawley Center, or a site location on or off campus, Chartwells catering director will help you coordinate every detail to ensure your event is a success—whether you are planning a quick box lunch or an elaborate buffet. Contact the Chartwells Catering Department at (330) 941-1979, visit Dine On Campus (http://www.dineoncampus.com/ysu/), or visit the office in Kilcawley Center.

Serving Students

The Office for Student Affairs is located on the east wing of Kilcawley Center under Kilcawley House, beneath the red awning that says, "University Housing". This suite of offices includes the Office of Housing and Residence Life, the Office of the Associate Vice President for Student Experience, the Dean of Students, the Associate Vice President for Enrollment Planning and Management, and the Office of Student Conduct.

The upper level of Kilcawley Center includes Kilcawley Staff Offices, Disability Services, Student Counseling Services, and the Penguin Pantry. Student Activities, Student Government, and student organizations/mailbox are in the west end of Kilcawley, as is the Center for Student Progress. The Cove is an extension of Kilcawley Center located on the upper level on the west end of the building. At the Cove, students are welcome to lounge, study, eat, and participate in recreational games and activities. Also in the Cove is the Giant Eagle Penguin Pickup Service where students can have groceries delivered to this location with no delivery fee during fall and spring semesters. The Andrews Student Recreation and Wellness Center can also be accessed from the upper level of Kilcawley Center.

Graphic Services, located on the lower level, designs flyers, banners, posters, brochures, and graphics for student organizations and student projects. They also provide large-format printing services.

Penguin Xing provides YSU IDs (the Y Card), serves as the information center and lost & found for the University, registers students for campus locker rentals, sells commuter, faculty and staff meal plans, and takes photos for all faculty, staff and student Y Cards. Photos can also be uploaded via our Y Card site. The Penguin Xing is located on the upper level of the Center near the main lobby.

PHOTO IDENTIFICATION CARD (Y CARD)

Photo IDs

The Division of Student Affairs issues a photo identification card to every student enrolled at the University. The student must carry the card while on campus. The use of this card is restricted to the student to whom it was issued. Lost or stolen cards must be replaced at the student’s expense (see “Student Fees and Charges” for amount). To replace the card, the student must present proper identification (e.g. driver’s license) in Kilcawley Center at the Penguin Xing and pay the applicable replacement fee. The photo identification card is the property of the University and must be surrendered by the student upon request by University officials.

Mercy Health Wick Primary Care at YSU

Mercy Health Wick Primary Care at YSU is located on the corner of Wick and Lincoln Avenue. The Center provides health care to all currently enrolled YSU students – both resident and commuter students. These services are provided because of the Student Health Fee of $34 that is paid by all students each semester. The mandatory fee provides revenue to Mercy Health System to give students access to their Primary Care Facility. The center will be staffed by a full-time primary care physician and advanced practice provider. It will also provide the following services below:

Full service primary care practice:

- Establish and develop continuity of care
- Address acute issues
- Walk-In-Care location for non-scheduled visits
- Preventative care
- Extended hours
- Lab draw site
- Services also include access to MyChart. This is a patient portal which allows direct communication with the practice and provider, prescription refills, electronic visits and access to a patient’s medical record.

Mental health services:

- Mental health, behavioral health and addiction issues addressed
- Two half-days per week
- Psychiatrist

Health care is available for illness, injury, first aid, and routine health checks. Health screening tests, physical exams for sports and academic programs, gynecological exams, as well as consultations and referrals, are provided. Flu and other immunizations are also given; however, there are charges for these injections.

Office visits are free. Students do not need to have health insurance to use the Center’s services. Blood tests, x-rays, lab tests, etc., ordered by a physician are done off campus at the student’s choice of provider and at the student’s expense.

Student records are kept strictly confidential. Information cannot be released to anyone without the written consent of the student. Certain public health diseases, however, must be reported to the Department of Health as required by law.

For more information, visit Student Health Clinic (https://cms.ysu.edu/administrative-offices/student-health/student-health/).
Registrar
The Office of the Registrar, a department within the Division of Institutional Effectiveness, provides quality service to YSU students within all areas related to enrollment by supporting the systems and policies of the learning environment and safeguarding the integrity of the university’s records and regulations. The department is committed to:

• Providing a proficient and holistic level of customer service that will lead to increased student retention and persistence.
• Maintaining an accurate permanent record for each student.
• Furnishing necessary information, support, and referrals to the university community and outside agencies in an efficient manner while consistently administering federal regulations.
• Supporting students, faculty, and staff by integrating the latest technology into our services.

The office is comprised of three main areas: Records, Registration, and the Penguin Service Center. All are located in Meshel Hall, room 232. For more information, call (330) 941-6000.

Veterans Affairs
Located in the Veterans Resource Center at 633 Wick Avenue, the Office of Veterans Affairs (OVA) serves as a central location to discuss issues, questions, or concerns current and prospective military and veteran students may have regarding their enrollment. The university recognizes the sacrifice of military service and waives the undergraduate and graduate application and new student orientation fees for all veterans and currently serving military members. To have the application fee waived, the applicant must provide a DD Form 214 or other verification of honorable service in the armed forces of the United States.

After their initial registration, all military and veteran students are then qualified for the following veteran benefits at YSU:

• Priority registration
• Voluntary enrollment into select “Veterans Friendly” GER courses
• Voluntary membership into the “Armed Forces Student Association” (YSU’s Student Veteran Organization)
• Evaluation of military training for possible college credit
• GI Bill counseling and certification
• Assistance with coordination of periods of military service during the semester
• Advocacy and counseling services
• Coordinated Math and Writing tutoring services
• Access to limited veteran scholarships (based on need and academic success)
• Email information letters with pertinent information related to student veterans
• Special recognition at graduation

The OVA also works with the Office of Veterans Affairs Advisory Council, an independent body that guides and supports the university’s efforts to serve those who have or are serving in the armed forces. The Council is a representative body drawn from faculty, students, staff, and the community.

The Veterans Resource Center (VRC) on campus at 633 Wick Avenue is a 6,000 square foot, fully handicap accessible facility that is the first of its kind at any university in Ohio. The VRC features lounge space, a computer lab, meeting rooms, a community/class room, kitchenette, ample office space for outside veteran-related organizations and much more. The VRC is open to all student veterans, currently serving military members and military dependents that are using veteran’s education benefits.

Students and all interested parties can contact the OVA by visiting our OVA (http://cms.ysu.edu/administrative-offices/veterans-affairs/office-veteran-affairs/) website, emailing us at veterans@ysu.edu, or calling the office at (330) 941-2503. Individual person-to-person meetings are available and encouraged.

University/Community Outreach
Regional Economic Development Initiative (REDI)
The Regional Economic Development Initiative (REDI) at Youngstown State University (YSU) was established in 1967 as the Center for Urban and Regional Studies (CURS) to act as a research and public service arm of YSU. The mission of CURS has been to integrate professional staff, faculty, students, and other University resources to focus on issues and problems of urban and regional development through an ongoing program of basic and applied research and technical assistance and by providing training for local government, community, and economic development organizations and businesses.

In 2015, CURS transitioned to REDI and assumed an added role as “Navigator” in providing research-based, implementation-focused economic development support services for the Mahoning Valley. REDI’s focus reflects a “plan-apply-implement” process which parallels the familiar “design-build” process often seen in the architecture and construction industries. This focus will enable REDI to help identify and quantify challenges and opportunities, support economic development implementation, and provide a broad array of support services throughout the Mahoning Valley.

REDI offers federal, state, and private grant-writing, and it provides valuable GIS mapping and data services to a number of local and regional government, nonprofit organizations, and social service agencies throughout the region.

Recent initiatives include studies, strategy development, or project implementation related to Community Crime Prevention, Community Health Initiatives, Green Infrastructure, Urban Transportation, Neighborhood Parks Restoration, Road Condition Assessment, Wayfinding Signage, and Comprehensive Community Planning.

Center for Human Services Development
The Center for Human Services Development is an externally-funded, community outreach department. With the mission to work with organizations and faculty to build capacity through the support of services and research, the Center’s main objective is to increase the ability of organizations to serve the people of the Mahoning Valley. Led by experienced professionals, the Center works to provide a variety of services to community agencies and departments across campus.

The scope of the Center is:

• Establishing and maintaining networks or linkages among service providers and the broader community.
• Offering technical assistance for social service program evaluation.
• Providing training for agency directors, boards, and staff members.
• Conducting community-wide needs assessments and sharing information.
• Helping organizations to develop strategic plans.
• Identifying and obtaining grants for community organizations that are working collaboratively to address community needs.

Professional Services:

• Technical assistance
• Evaluation
• Grant writing
• Data analysis

University/Community Outreach
• Program and grant management
• Professional development

The Center is housed in the Beeghly College of Education and can be contacted by calling (330) 941-3469.

CONTINUING EDUCATION

Continuing education non-credit programs offer area residents a wide variety of adult study or lifelong-learning courses and seminars to meet the needs of a changing society for updating and upgrading professional skills, for mid-career adjustments, and for lifestyle changes.

Area residents participate annually in more than 200 non-credit programs, many of which are in the academic disciplines and professional areas, varying from half-day seminars to multi-week courses conducted in local business and government settings and other off-campus locations.

Center for Creative Retirement

THE COLLEGE FOR THE OVER SIXTY

• a state-mandated program providing for the enrollment of Ohioans 60 years of age or older (who have been residents of the State for the preceding 12 months) in undergraduate credit classes on a space-available basis. Residents who meet eligibility requirements based on income level may earn credit toward a degree through the Over Sixty program.

THE YSU-ILR (INSTITUTE FOR LEARNING IN RETIREMENT)

• an affiliate of the Elderhostel Institute Network, providing seniors with the opportunity to develop and conduct educational and social opportunities for the members of YSU-ILR.

Community Counseling Clinic

The Community Counseling Clinic (CCC) is a training clinic for students who are earning their master’s degree in counseling. The clinic’s counselors and trainees provide individual, family, couples, and group counseling services to YSU students and their families, as well as all children, adolescents, and adults living in Youngstown and its surrounding communities.

The CCC offers a relaxed and confidential environment to discuss personal, relationship, academic, or work-related problems. Examples of matters which may cause one to seek counseling include: academic success-related concerns, relationship problems, family conflicts, adjustment-related problems, depression, anxiety, career indecision, and loss and grief issues. Talking with a counselor can be an important first step in making desired life changes.

Day and evening appointments are available. Appointments can be made in person or by calling (330) 941-3056. The CCC is located in Room 3101 in the Beeghly College of Education, which is at the corner of Fifth and Rayen avenues. Free parking is available. Additional information is available at the Community Counseling Clinic (http://www.ysu.edu/community-counseling-clinic)/web/site.

The Ohio Small Business Development Center

THE OHIO SMALL BUSINESS DEVELOPMENT CENTER (SBDC) AND EXPORT ASSISTANCE NETWORK AT YOUNGSTOWN STATE UNIVERSITY

The Ohio Small Business Development Center (SBDC) and Export Assistance Network at YSU is part of the most comprehensive and effective business assistance network in the nation. Its purpose is to help existing businesses develop, grow, and retain a competitive advantage in the ever-changing global economy while helping entrepreneurs realize their goals of business ownership.

In Ohio, the SBDC program is a partnership of the Ohio Development Services Agency and the U.S. Small Business Administration. Locally, the SBDC is hosted by Youngstown State University and the Williamson College of Business Administration. The Center provides professional, in-depth business, exporting, and international trade consulting and training to existing and new business ventures to help foster a strong and successful business community in the counties they serve. There is no fee for the consulting services, and all company and project information is held in strict confidence.

The Ohio Small Business Development Center and Export Assistance Network at YSU is located in the Williamson College of Business Administration – Room 1155, and can be reached at: (330) 941-2140.

Telecommunication Services

WYSU-FM, 88.5 MHZ

Youngstown State University owns and operates WYSU-FM, a 50,000-watt radio station that serves the Mahoning and Shenango Valley region with fine arts and news and information programming from its studios in Cushwa Hall. The station broadcasts a mix of news and classical music programs on its main analog channel, on its HD1 (digital) channel, and as an Internet stream; it also broadcasts all-classical music on its HD2 channel and second Internet stream. The station broadcasts at 88.5 MHz in Youngstown, at 88.1 MHz in Ashtabula, and 97.5 MHz in New Wilmington, Pennsylvania.

WYSU-FM is non-commercial, listener-supported public radio, committed to being the community’s leading source for trusted, in-depth news, engaging conversation, and music that stimulates the mind and spirit.

As one of Youngstown State University’s most visible daily representatives to the community, WYSU also strives to be a valuable ambassador to that community, providing a forum to promote the artistic and intellectual activities of the university. The core of the radio operation is a full-time professional staff. Youngstown State University students whose qualifications meet professional broadcasting standards are also employed to support various aspects of the station’s operations.

FM-SCA PROGRAMS

The University transmits special educational programs for the sight-disabled on a multiplex basis using a sub-carrier frequency of 67 kilohertz.

WESTERN RESERVE PUBLIC MEDIA, NORTHEASTERN EDUCATIONAL TELEVISION OF OHIO

The University is a member of NETO (Northeastern Educational Television of Ohio), a public television consortium of the state universities at Akron, Kent, and Youngstown, which operates UHF Channels 45 and 49.

Common transmitters at Salem and Akron broadcast programs acquired from the Public Broadcasting Service and the Ohio Educational Television Network as well as local programs produced at Kent, Akron, and by contract at Youngstown.

Office of Alumni and Events

The Office of Alumni and Events (https://ysu.edu/alumni-events/) emphasizes a creative, integrated approach to communicating with, and fostering and maintaining relationships with all alumni, students, faculty and staff, and community members. This approach is accomplished through promoting and strengthening relationships with all, while upholding academic traditions and university vision. Alumni and Events provides comprehensive programs which promote involvement in and support of the university. University, regional and national events managed by the office are designed to highlight the value of the university.
The Office of Alumni and Events creates, coordinates, and/or assists with university events on campus and in the community. Alumni and Events fashions and implements a standard “University Look” to carry across all events and to uphold the exacting standards of YSU and to ensure all events exhibit the same level of quality that envisions YSU’s dedication to tradition and excellence.

Alumni and Events is charged with planning and implementing major university events including commencement. The office is also assigned unique one-time events such as political and dignitary visits, presidential installations, groundbreaking ceremonies and news conferences. Alumni and Events is charged with executing academic ceremonies that welcome the students to the university, celebrate their accomplishments and scholarship, and honor the culmination of their academic endeavors. These ceremonies build pride in students and alumni members in the education they earned from YSU.

The Office of Alumni and Events fosters ongoing relationships between Youngstown State University and over 100,000 graduates worldwide. Alumni chapters and affinity groups provide opportunities for connection. Lectures and spotlights highlight accomplished alumni and aid in lifelong learning. Alumni can volunteer with Pete’s Pride. This area also celebrates milestones in the alumni journey.

**College for the Over Sixty**

The Over Sixty (https://ysu.edu/registrar-office/college-over-sixty/) program is a state-mandated program providing for the enrollment of Ohioans 60 years of age or older (who have been residents of the state for the preceding 12 months) in undergraduate classes on a space-available basis. Residents who meet eligibility requirements based on income level may also earn credit toward a degree through the Over Sixty program. Program participation is coordinated by the Office of the Registrar in Meshel Hall.

**Community Counseling Clinic**

The Community Counseling Clinic (CCC) is a training clinic for students who are earning their master’s degree in counseling. The clinic’s counselors and trainees provide individual, family, couples, and group counseling services to YSU students and their families, as well as all children, adolescents, and adults living in Youngstown and its surrounding communities.

The CCC offers a relaxed and confidential environment to discuss personal, relationship, academic, or work-related problems. Examples of matters which may cause one to seek counseling include: academic success-related concerns, relationship problems, family conflicts, adjustment-related problems, depression, anxiety, career indecision, and loss and grief issues. Talking with a counselor can be an important first step in making desired life changes.

Day and evening appointments are available. Appointments can be made in person or by calling (330) 941-3056. The CCC is located in Room 3101 in the Beeghly College of Education, which is at the corner of Fifth and Rayen avenues. Free parking is available. Additional information is available at the Community Counseling Clinic (http://www.ysu.edu/community-counseling-clinic/) website.

**Center for Human Services Development**

The Center for Human Services Development (https://ysu.edu/center-for-human-services-development/) is an externally-funded, community outreach department. With the mission to work with organizations and faculty to build capacity through the support of services and research, the Center’s main objective is to increase the ability of organizations to serve the people of the Mahoning Valley. Led by experienced professionals, the Center works to provide a variety of services to community agencies and departments across campus.

The scope of the Center is:

- Establishing and maintaining networks or linkages among service providers and the broader community.
- Offering technical assistance for social service program evaluation.
- Providing training for agency directors, boards, and staff members.
- Conducting community-wide needs assessments and sharing information.
- Helping organizations to develop strategic plans.
- Identifying and obtaining grants for community organizations that are working collaboratively to address community needs.

**Professional Services:**

- Technical assistance
- Evaluation
- Grant writing
- Data analysis
- Program and grant management
- Professional development

The Center is housed in the Beeghly College of Liberal Arts, Social Sciences and Education and can be contacted by calling (330) 941-3469.

**Continuing Education**

Continuing education non-credit programs offer area residents a wide variety of adult study or lifelong-learning courses and seminars to meet the needs of a changing society for updating and upgrading professional skills, for mid-career adjustments, and for lifestyle changes.

Area residents participate annually in more than 200 non-credit programs, many of which are in the academic disciplines and professional areas, varying from half-day seminars to multi-week courses conducted in local business and government settings and other off-campus locations.

**The Ohio Small Business Development Center**

The Ohio Small Business Development Center (SBDC) and export assistance Network at Youngstown State University

The Ohio Small Business Development Center (https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/ohio-small-business-development-center-ysu/) (SBDC) and Export Assistance Network at YSU is part of the most comprehensive and effective business assistance network in the nation. Its purpose is to help existing businesses develop, grow, and retain a competitive advantage in the ever-changing global economy while helping entrepreneurs realize their goals of business ownership.

In Ohio, the SBDC program is a partnership of the Ohio Development Services Agency and the U.S. Small Business Administration. Locally, the SBDC is hosted by Youngstown State University and the Williamson College of Business Administration. The Center provides professional, in-depth business, exporting, and international trade consulting and training to existing and new business ventures to help foster a strong and successful business community in the counties they serve. There is no fee for the consulting services, and all company and project information is held in strict confidence.

The Ohio Small Business Development Center and Export Assistance Network at YSU is located in the Williamson College of Business Administration – Room 1155, and can be reached at: (330) 941-2140.

**Regional Economic Development Initiative (REDI)**

The Regional Economic Development Initiative (REDI) at Youngstown State University (YSU) was established in 1967 as the Center for Urban and Regional Studies (CURS) to act as a research and public service arm of
YSU. The mission of CURS has been to integrate professional staff, faculty, students, and other University resources to focus on issues and problems of urban and regional development through an ongoing program of basic and applied research and technical assistance and by providing training for local government, community, and economic development organizations and businesses.

In 2015, CURS transitioned to REDI and assumed an added role as “Navigator” in providing research-based, implementation-focused economic development support services for the Mahoning Valley. REDI’s focus reflects a “plan- implement” process which parallels the familiar “design-build” process often seen in the architecture and construction industries. This focus will enable REDI to help identify and quantify challenges, opportunities, support economic development implementation, and provide a broad array of support services throughout the Mahoning Valley.

REDI offers federal, state, and private grant-writing, and it provides valuable GIS mapping and data services to a number of local and regional government, nonprofit organizations, and social service agencies throughout the region. Recent infinitives include studies, strategy development, or project implementation related to Community Crime Prevention, Community Health Initiatives, Green Infrastructure, Urban Transportation, Neighborhood Parks Restoration, Road Condition Assessment, Wayfinding Signage, and Comprehensive Community Planning.

**Telecommunication Services**

**WYSU-FM, 88.5 MHz**

Youngstown State University owns and operates WYSU-FM (https://wysu.org/), a 50,000-watt radio station that serves the Mahoning and Shenango Valley region with fine arts and news and information programming from its studios in Cushwa Hall. The station broadcasts a mix of news and classical music programs on its main analog channel, on its HD1 (digital) channel, and as an Internet stream; it also broadcasts all-classical music on its HD2 channel and second Internet stream. The station broadcasts at 88.5 MHz in Youngstown, at 88.1 MHz in Ashtabula, and 97.5 MHz in New Wilmington, Pennsylvania.

WYSU-FM is non-commercial, listener-supported public radio, committed to being the community’s leading source for trusted, in-depth news, engaging conversation, and music that stimulates the mind and spirit.

As one of Youngstown State University’s most visible daily representatives to the community, WYSU also strives to be a valuable ambassador to that community, providing a forum to promote the artistic and intellectual activities of the university. The core of the radio operation is a full-time professional staff. Youngstown State University students whose qualifications meet professional broadcasting standards are also employed to support various aspects of the station’s operations.

**FM-SCA Programs**

The University transmits special educational programs for the sight-disabled on a multiplex basis using a sub-carrier frequency of 67 kilohertz.

**Western reserve public media, Northeastern Educational Television of Ohio**

The University is a member of NETO (Northeastern Educational Television of Ohio), a public television consortium of the state universities at Akron, Kent, and Youngstown, which operates UHF Channels 45 and 49.

Common transmitters at Salem and Akron broadcast programs acquired from the Public Broadcasting Service and the Ohio Educational Television Network as well as local programs produced at Kent, Akron, and by contract at Youngstown.

**University Administration**

**Ohio Department of Higher Education**

The Ohio Department of Higher Education (https://www.ohiohighered.org/board/) is a Cabinet-level agency for the Governor of the State of Ohio that oversees higher education for the state.

The Ohio Board of Regents, a nine-member advisory board to the chancellor with two ex-officio representatives from the state legislature, was created in 1963 by the General Assembly. Members of the Board of Regents are appointed by the governor with the advice and consent of the senate.

Responsibilities of the board include developing an independent annual report on the Condition of Higher Education in the state of Ohio and issuing an annual performance review of the chancellor. The board is also responsible for advising the chancellor on issues of statewide importance affecting higher education.

<table>
<thead>
<tr>
<th>Member</th>
<th>Term Expires</th>
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</thead>
<tbody>
<tr>
<td>Chancellor Randy Gardner (ex-officio)</td>
<td></td>
</tr>
<tr>
<td><a href="https://www.ohiohighered.org/chancellor-gardner">https://www.ohiohighered.org/chancellor-gardner</a></td>
<td>(<a href="https://www.ohiohighered.org/chancellor-gardner/">https://www.ohiohighered.org/chancellor-gardner/</a>)</td>
</tr>
<tr>
<td>Sen. Peggy Lehner (ex-officio)</td>
<td>http://</td>
</tr>
<tr>
<td><a href="http://www.ohiohighered.org/node/161">http://www.ohiohighered.org/node/161</a> (<a href="http://www.ohiohighered.org/node/161/">http://www.ohiohighered.org/node/161/</a>)</td>
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<tr>
<td>Vacant</td>
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**University Administration**

**University Board of Trustees**

<table>
<thead>
<tr>
<th>University Board of Trustees</th>
<th>Term Expires</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anita A. Hackstedde, Chair</td>
<td>2021</td>
</tr>
<tr>
<td>James E. &quot;Ted&quot; Roberts</td>
<td>2022</td>
</tr>
<tr>
<td>John R. Jakubek, Vice Chair</td>
<td>2023</td>
</tr>
<tr>
<td>Molly S. Seals</td>
<td>2024</td>
</tr>
<tr>
<td>Michael A. Peterson</td>
<td>2025</td>
</tr>
<tr>
<td>Capri S. Cafaro</td>
<td>2026</td>
</tr>
<tr>
<td>Charles T. George, Secretary</td>
<td>2027</td>
</tr>
<tr>
<td>Allen L. Ryan, Jr.</td>
<td>2028</td>
</tr>
<tr>
<td>Victoria M. Woods, Student Trustee</td>
<td>2021</td>
</tr>
<tr>
<td>Galena G. Lopuchovsky, Student Trustee</td>
<td>2022</td>
</tr>
</tbody>
</table>

**Executive Level**

<table>
<thead>
<tr>
<th>Executive Level</th>
<th>Position</th>
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<tbody>
<tr>
<td>James P. Tressel, MA</td>
<td>President</td>
</tr>
<tr>
<td>Brien N. Smith, PhD</td>
<td>Provost and Vice President for Academic Affairs</td>
</tr>
<tr>
<td>Holly A. Jacobs, JD</td>
<td>Vice President and General Counsel</td>
</tr>
<tr>
<td>Neal P. McNally, MPA</td>
<td>Vice President for Finance and Business Operations</td>
</tr>
<tr>
<td>William M. Sherman, PhD</td>
<td>Vice President for Institutional Effectiveness and Board Professional</td>
</tr>
</tbody>
</table>

**Faculty and Staff**
**Division of Academic Affairs**

<table>
<thead>
<tr>
<th>Division of Academic Affairs</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brien N. Smith, PhD</td>
<td>Provost and Vice President for Academic Affairs</td>
</tr>
<tr>
<td>Kevin E. Ball, PhD</td>
<td>Associate Provost, Academic Programs and Planning</td>
</tr>
<tr>
<td>Claire Berardini, PhD</td>
<td>Associate Provost, Student Success</td>
</tr>
<tr>
<td>Jennifer Pintar, PhD</td>
<td>Associate Provost, Academic Administration</td>
</tr>
<tr>
<td>Jeffery B. Allen, PhD</td>
<td>Dean, BCHHS, Bitonte College of Health and Human Services</td>
</tr>
<tr>
<td>Amy Cossentino, PhD</td>
<td>Dean, Honors College</td>
</tr>
<tr>
<td>Charles L. Howell, PhD</td>
<td>Dean, BOCE, Beeghly College of Liberal Arts, Social Sciences, and Education</td>
</tr>
<tr>
<td>Betty Jo Licata, PhD</td>
<td>Dean, WCBA, Williamson College of Business Administration</td>
</tr>
<tr>
<td>Phyllis M. Paul, PhD</td>
<td>Dean, CCCA, Cliffe College of Creative Arts</td>
</tr>
<tr>
<td>Sal A. Sanders, PhD</td>
<td>Dean, College of Graduate Studies &amp; Assistant Provost for Cyberlearning</td>
</tr>
<tr>
<td>Wim F. Steelant, PhD</td>
<td>Dean, STEM, College of Science Technology, Engineering and Mathematics</td>
</tr>
<tr>
<td>Carol Lynnett Bennett, MA</td>
<td>Assistant Provost, Diversity, Equity, and Inclusion</td>
</tr>
<tr>
<td>Hillary Fuhrman, ME</td>
<td>Assistant Provost, Institute for Teaching and Learning</td>
</tr>
<tr>
<td>Gregory Boerio, MEd, EdS</td>
<td>Executive Director, Rich Center for Autism</td>
</tr>
<tr>
<td>Christine Adams, MLS</td>
<td>Co-Director, Maag Library and Head of Research and Academic Support</td>
</tr>
<tr>
<td>Justin Edwards, EdD</td>
<td>Director, Career Exploration and Development</td>
</tr>
<tr>
<td>Amy Gordon, MA</td>
<td>Director, Comprehensive Testing Center</td>
</tr>
<tr>
<td>Leslie Page, MHE</td>
<td>Director, First Year Student Services</td>
</tr>
<tr>
<td>Sharon Schroeder, MEd</td>
<td>Director, College Access and Transition</td>
</tr>
<tr>
<td>Ana M. Torres, BBA</td>
<td>Co-Director, Maag Library and Head of Library Services and Operations</td>
</tr>
<tr>
<td>Severine Van slambrouck, PhD</td>
<td>Director, Research, Compliance, and Initiatives</td>
</tr>
<tr>
<td>Becky Varian, MSE</td>
<td>Director, Resch Academic Success Center</td>
</tr>
</tbody>
</table>

**Division of Finance and Business Operations**

<table>
<thead>
<tr>
<th>Division of Finance and Business Operations</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Sean McNally, MPA</td>
<td>Vice President, Finance and Business Operations</td>
</tr>
<tr>
<td>Katrena Davidson, CPA, MBA</td>
<td>Associate Vice President for Finance and Controller</td>
</tr>
<tr>
<td>John Hyden, BCT</td>
<td>Associate Vice President, University Facilities</td>
</tr>
<tr>
<td>James Yukech, MSE</td>
<td>Associate Vice President, Chief Information Officer</td>
</tr>
<tr>
<td>Marianne Cohol, BAS</td>
<td>Director, IT Application and Project Management Office Services</td>
</tr>
<tr>
<td>Rosalyn Donaldson, MSeD</td>
<td>Director, IT Training and Academic Continuity Team Program Manager</td>
</tr>
<tr>
<td>Susan Ewing, CPA, MBA</td>
<td>Bursar</td>
</tr>
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**Division of Institutional Effectiveness**

<table>
<thead>
<tr>
<th>Division of Institutional Effectiveness</th>
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<tbody>
<tr>
<td>William M. Sherman, PhD</td>
<td>Vice President, Institutional Effectiveness and Board Professional</td>
</tr>
<tr>
<td>Jeanne Herman, BSBA</td>
<td>University Registrar</td>
</tr>
<tr>
<td>Shannon Tirone, MS</td>
<td>Associate Vice President, University Relations</td>
</tr>
<tr>
<td>Ross Morrone, MS</td>
<td>Chief Marketing Officer</td>
</tr>
<tr>
<td>Nathan Myers, PhD</td>
<td>Associate Provost, International and Global Initiatives</td>
</tr>
<tr>
<td>Ronald Cole, BA</td>
<td>Director of University Communications and Assistant to the Board Secretary</td>
</tr>
<tr>
<td>Tysa Egleton, MS</td>
<td>Director, Penguin Service Center and Associate Registrar</td>
</tr>
<tr>
<td>Rebecca Geltz, MCIS</td>
<td>Director, Institutional Research and Analytics</td>
</tr>
<tr>
<td>Jacquelyn LeViseur, BA</td>
<td>Director, University Events and Alumni Engagement</td>
</tr>
<tr>
<td>Gary Sexton, MM</td>
<td>Director, WYSU-FM</td>
</tr>
<tr>
<td>Shawn Varso, BSAS</td>
<td>Chief of Police</td>
</tr>
</tbody>
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**Division of Legal Affairs and Human Resources**

<table>
<thead>
<tr>
<th>Division of Legal Affairs and Human Resources</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Holly A Jacobs, JD</td>
<td>Vice President, Legal Affairs and Human Resources and General Counsel</td>
</tr>
<tr>
<td>Cynthia Kravitz, JD</td>
<td>Associate Vice President and Chief Human Resources Officer</td>
</tr>
<tr>
<td>Gregory Morgione, JD</td>
<td>Associate General Counsel and Liaison for Local Government Relations</td>
</tr>
<tr>
<td>David Sipusic, JD</td>
<td>Associate General Counsel, Research and EEO Compliance</td>
</tr>
<tr>
<td>Jennifer Drennen, BA</td>
<td>Director, Organizational Development</td>
</tr>
<tr>
<td>Jennifer Lewis-Aey, MHR</td>
<td>Director, Talent Acquisition, Processing, and Employee Records</td>
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<td></td>
<td>Director, Equal Opportunity and Policy Development</td>
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**President’s Division**

<table>
<thead>
<tr>
<th>President’s Division</th>
<th>Position</th>
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</thead>
<tbody>
<tr>
<td>Ronald Strollo, BSBA</td>
<td>Executive Director of Athletics</td>
</tr>
</tbody>
</table>
### Division of Student Affairs

#### Office of the Dean of Students
- **Position**: Dean of Students and Ombudsperson
  - **Nicole Kent-Strollo, EdD**
- **Position**: Assistant Dean of Students for Community Standards, Advocacy, and Conduct
  - **Erin Hungerman, MS**
- **Position**: Director, Student Counseling Center
  - **Ann Jaronski, PhD**

#### Student Enrollment and Business Services
- **Position**: Associate Vice President, Student Enrollment and Business Services
  - **Elaine Ruse, MBA**
- **Position**: Director, Financial Aid and Scholarships
  - **Patrick Hoffman, MBA, MPA**
- **Position**: Director, Undergraduate Admissions
  - **Christine Hubert, MA**
- **Position**: Director, Technology Services, Student Enrollment and Business Services
  - **James Stanger, MBA**

#### Student Experience
- **Position**: Associate Vice President, Student Experience
  - **Joy Polkabla Byers, MA**
- **Position**: Executive Director, Student Experience and Residence Life
  - **Erin Driscoll, MBA**
- **Position**: Executive Director, Auxiliary Services
  - **John Young, BS**
- **Position**: Director, Housing and Residence Life
  - **Olivia Cupp, MHHS**
- **Position**: Director, Campus Recreation
  - **Ryan McNicholas, MHHS**
- **Position**: Director, Kilcawley Center Student Union
  - **Stanley Sweeney, MEd**
- **Position**: Associate Director, Office of Veteran's Affairs
  - **Rick Williams, MBA**

### Division of Workforce Education and Innovation

#### Division of Workforce Education and Innovation
- **Position**: Executive Director, Strategic Workforce Education and Innovation
  - **Jennifer Oddo, BSBA**
- **Position**: Executive Director, Excellence Training Center
  - **David Sipusic, JD**
- **Position**: Director, Workforce Development
  - **Richard Shepas, ME**

### Full-Service Faculty

#### A

**Dr. Samuel Adu-Poku**
- Professor of Art
- Graduate Faculty Member
- B.A., University of Science and Technology (Ghana), 1987
- Dip. Ed., University of Science and Technology (Ghana), 1988
- M.Ed., University of New Brunswick (Canada), 1995
- Ph.D., University of British Columbia (Canada), 2002

**Dr. Farzad Ahmadi**
- Assistant Professor of Electrical and Computer Engineering
- Graduate Faculty Member
- Associate degree, Rasht Technical and Vocational College, 2005
- B.S., Shiraz University of Technology, 2007
- M.S. Shahid Beheshti University, 2010
- Ph.D., The University of Akron, 2018

**Dr. Osama Aljarrah**
- Assistant Professor of Mechanical, Industrial, and Manufacturing Engineering
- B.S., Jordan University of Science and Technology, 2006
- M.B.A., Yarmouk University, 2013
- Ph.D., University of Massachusetts-Dartmouth, 2021

**Dr. Jeffrey B. Allen**
- Dean of the Bitonte College of Health and Human Services and Professor of Psychology
- B.A., Ball State University, 1985
- M.A., Bradley University, 1989
- Ph.D., University of Mississippi, 1994

**Dr. Mari L. Alschuler**
- Associate Professor of Social Work
- Graduate Faculty Member
- B.A., Brown University, 1980
- M.Ed., Teachers College of Columbia University, 1987
- M.S.W., Fordham University, 1990
- Ph.D., Barry University, 2012

**Dr. Isam E. Amin**
- Professor of Geological and Environmental Sciences
- Graduate Faculty Member
- B.S., University of Khartoum, 1977
- M.S., New Mexico Inst. of Mining and Technology, 1983
- Ph.D., University of Nevada-Reno, 1987

**Dr. Corey E. Andrews**
- Professor of English
- Graduate Faculty Member
- B.A., Miami University, 1992
- M.A., Ohio University, 1995
- Ph.D., Ohio University, 2000

**Dr. Felicia P. Armstrong**
- Associate Professor of Geological and Environmental Sciences
- Graduate Faculty Member
- B.S., University of Dayton, 1996
- M.S., Alabama AM University, 1996
- Ph.D., Oklahoma State University, 2003

**Dr. Christopher Amtsen**
- Assistant Professor of Chemistry
- Graduate Faculty Member
- B.S., University of Connecticut, 2008
- Ph.D., University of California, Los Angeles, 2014

**Dr. Abdurrahman Arslanyilmaz**
- Professor of Computer Science and Information Systems
- Graduate Faculty Member
- B.E., Gazi University (Turkey), 1998
- Certificate, Intensive English School, Middle East Technical University (Turkey), 2000
- M.Ed., University of Missouri-Columbia, 2002
- Ph.D., Texas AM University, 2007

**Dr. David K. Asch**
- Associate Professor of Biological Sciences
- Graduate Faculty Member
- B.S., University of Nebraska-Lincoln, 1981
- M.S., Creighton University, 1983
- Ph.D., University of Kansas Medical Center, 1991

**Ms. M. Constance Augustine-Thompson**
- Lecturer of Accounting and Finance
- Graduate Faculty Member
- B.S., Youngstown State University, 1991
- M.B.A., University of Akron, 1995

**Dr. Diana Awad-Scrocco**
- Associate Professor of English
- Graduate Faculty Member
- B.A., Youngstown State University, 2006
- M.A., Kent State University, 2008

---

**Dr. Diana Awad-Scrocco**
- Associate Professor of English
- Graduate Faculty Member
- B.A., Youngstown State University, 2006
- M.A., Kent State University, 2008
Dr. Daniel Ayana  
Professor of History  
Graduate Faculty Member  
B.A., Addis Ababa University, 1980  
M.A., Addis Ababa University, 1984  
Ph.D., University of Illinois at Urbana-Champaign, 1995

Dr. Rebecca Lee Badawy  
Associate Professor of Management  
Graduate Faculty Member  
B.A., State University of New York at Buffalo, 2008  
M.A., West Chester University of Pennsylvania, 2010  
Ph.D., State University of New York at Buffalo, 2014

Dr. Morgan Bagley  
Assistant Professor of Kinesiology and Sport Science  
Graduate Faculty Member  
B.S., Mount Union College, 2003  
M.A., Kent State University, 2005  
Ph.D., Kent State University, 2015

Dr. Snjezana Balaz  
Assistant Professor of Physics and Astronomy  
Graduate Faculty Member  
B.S., Northland College, 2001  
M.S., University of Nebraska, 2005  
Ph.D., University of Nebraska, 2007

Dr. James A. Benedict  
Associate Professor of Physical Therapy  
Graduate Faculty Member  
B.S., The Ohio State University, 1982  
M.Ed., Kent State University, 1989  
Ph.D., Walden University, 2016

Dr. Vamsi Borra  
Assistant Professor of Electrical and Computer Engineering  
B.E., Jawaharlal Nehru Technological University, 2011  
M.S., Youngstown State University, 2014

Dr. Patrick J. Bateman  
Professor of Management  
Graduate Faculty Member  
B.S., Rutgers University, School of Business, 1995  
M.S., Temple University, Fox School of Business, 2002  
Ph.D., University of Pittsburgh, 2008

Dr. Laura L. Beading  
Associate Professor of English  
Graduate Faculty Member  
B.F.A., Bowling Green State University, 1995  
M.A., Purdue University, 2001  
Ph.D., Purdue University, 2007

Dr. Jane Beese  
Associate Professor of Psychology  
Graduate Faculty Member  
B.A., University of Akron, 1987  
M.A., Case Western Reserve University, 1991  
Ed.D., University of Akron, 2008

Dr. Christopher M. Bellas  
Associate Professor of Criminal Justice and Forensic Sciences  
Graduate Faculty Member  
B.A., Edinboro University of Pennsylvania, 1997  
A.S., Edinboro University of Pennsylvania, 1998  
M.S., Youngstown State University, 2001  
Ph.D., Kent State University, 2010

Dr. Kevin E. Ball  
Associate Provost and Professor of English  
B.A., Truman State University, 1992  
M.A., Truman State University, 1994  
Ph.D., University of Nebraska-Lincoln, 2000

Dr. Kimberly A. Ballone  
Professor of Nursing  
Graduate Faculty Member  
B.S.N., Youngstown State University, 1987  
M.S.N., Kent State University, 1989  
D.N.P., Case Western Reserve University, 2009

Dr. Shelley Blundell  
Assistant Professor of Communication  
Graduate Faculty Member  
B.A., Kent State University, 2006  
B.S., Kent State University, 2007  
M.L.S., Kent State University, 2009  
Ph.D., Kent State University, 2015

Dr. Ewelina Boczkowska  
Professor of Music  
Graduate Faculty Member  
D.E.C., Jean-de-Brebeuf College and Vincent-d'Indy School of Music, 2000  
B.M., McGill University, 2002  
Ph.D., University of California, 2009

Dr. Brian Bonhomme  
Professor of History  
Graduate Faculty Member  
B.A., City College of the City University of New York, 1993  
M.A., City College of the City University of New York, 1996  
Ph.D., The City University of New York Graduate Center, 2000

Dr. Christopher M. Balendiran  
Professor of Chemistry  
Graduate Faculty Member  
B.S., University of Sri Lanka, 1985  
Ph.D., University of Wisconsin-Madison, 1991

Meghan Bileci  
Lecturer of Social Work  
B.A., Mount Vernon Nazarene University, 2002  
M.S.W., Cleveland State University, 2007

Sheila M. Blank  
Assistant Professor of Nursing  
B.S.N., Youngstown State University, 2001  
School Nurse License, Youngstown State University, 2005  
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M.A., Indiana University, 1998
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Certificate, University of Pittsburgh, 1976  
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**Colleges & Programs**  
**The Beeghly College of Liberal Arts, Social Sciences, and Education**  
*Charles Howell, Dean*  

The Beeghly College of Liberal Arts, Social Sciences, and Education (BCLASSE) prepares students for productive and rewarding lives by developing critical and creative thinking, sound judgment, and effective communication skills. We strive to help students become well-rounded members of society who value learning and to prepare them for careers and for advanced graduate and professional study.

BCLASSE affirms that the liberal arts and social sciences are the historical heart of the university and remain so today because of their focus on the essential concerns of humanity, among which are justice, art and beauty, knowledge of the world and civilization, reason, and the ability to transmit these to future generations.

BCLASSE affirms its commitment to teaching, hiring, and research that acknowledges and contributes to rich diversities of ethnicity, culture, gender, sexuality, religion, class, and race. It promotes the study of local, national, and global perspectives.

BCLASSE prepares students for professional and civic life by cultivating adaptability, critical thinking, and clear expression. We strive to graduate ethical and engaged students for a society that requires thoughtful teachers, professionals, workers, thinkers, writers, and speakers.

BCLASSE actively supports its faculty and students in the production and dissemination of new knowledge with the full commitment of its resources.
Academic Departments

- Department of English and World Languages
- Department of Humanities and Social Sciences
- Department of Psychological Sciences and Counseling
- Department of Teacher Education and Leadership Studies

Academic Programs

- Africana Studies
- American Studies
- Global Education
- Islamic Studies
- Judaic and Holocaust Studies
- Peace and Conflict Studies
- Women’s and Gender Studies
- Working-Class Studies

Programs For the BA Degree

- Anthropology
- English
- Geography
- History
- Italian
- Philosophy
- Political Science
- Professional and Technical Writing
- Psychology
- Religious Studies
- Sociology
- Spanish

Minors

Minors are available in all program areas with many programs offering multiple and/or interdisciplinary minors. Students wishing to pursue a minor should consult the list of official minors and seek advisement in the department that houses the minor. Minors consist of at least eighteen (18) semester hours, and one-third of the hours must be upper-division. Minors are not required for students enrolled in a Teacher Education program. In approved interdisciplinary minors, courses from the student’s major discipline can be counted in the minor provided that the same courses are not counted toward the major.

Certificates

Certificate programs are offered in historic preservation, applied gerontology, geospatial science and technology, and comparative international studies.

ICP Program

Students whose needs are not met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (see Special Academic Programs).

Accreditation

Youngstown State University teacher education programs are accredited by the Ohio Department of Education and the Council for the Accreditation of Educator Preparation (CAEP). These programs are subject to the sections of the Ohio law and regulations governing teacher education and licensure. The Beeghly College of Liberal Arts, Social Sciences, and Education serves as the recommending agent for all Youngstown State University graduates who wish to qualify for state of Ohio licensure as well as for licensure in other states.

Degree Requirements

**Degree Requirements**

Requirements for completion of a baccalaureate degree (BA, BGS, BSED) within the Beeghly College of Liberal Arts, Social Sciences, and Education include all University requirements detailed in the Academic Policies and Procedures section of the Undergraduate Catalog (i.e., requirements regarding total General Education Requirements, university credits, course levels, majors, and minors, grade point average, residency and degree applications). Specific requirements for each major in the Beeghly College of Liberal Arts, Social Sciences, and Education are listed by department.

**College Foreign Language Requirement for Bachelor’s Degree**

All candidates for the BA degree are required to demonstrate proficiency at the 2600 level (two semesters) in any foreign language. Students with a foreign language background may desire to take the foreign language placement test in order to place into the second semester (2600) or beyond (which will satisfy the foreign language requirement). It may be possible to satisfy the foreign language requirement through appropriate college transfer coursework and credit by exam.

Courses of Instruction and Curricula

In the following department sections, the course requirements for the various majors are given, but other requirements are not repeated from the list above.

For more information, visit the Beeghly College of Liberal Arts, Social Sciences, and Education (https://ysu.edu/academics/beeghly-college-liberal-arts-social-sciences-education/).
**Majors in Teacher Education**

The Department of Teacher Education and Leadership Studies offers teaching licenses in the following areas:

- **Primary/Primary Intervention Specialist Education** (Pre-kindergarten through grade five). The successful candidate will teach children who are typically developing, at-risk, gifted, or who have mild/moderate educational needs in the P-5 classroom. This classroom can be a general education, full inclusion, or special education classroom, or a resource room.
- **Middle Childhood Education** - (Grades four through nine). The successful candidate will teach learners in at least two of four curriculum concentration areas named on the teaching license including:
  - Language Arts
  - Mathematics
  - Science
  - Social Studies
- **Adolescent Education** - (Grades seven through twelve). The successful candidate will teach learners in one of the following curriculum areas named on the teaching license including:
  - Integrated Sciences Education
  - Integrated Language Arts Education
  - Integrated Mathematics Education
  - Integrated Social Studies Education
- **Multi-age Education** - (Pre-kindergarten through grade twelve). The successful candidate will teach learners in one of the following curriculum areas named on the teaching license including:
  - Spanish Education (see Department of English and World Languages for more information)
  - Music Education (see Department of Music for more information)
  - Visual Arts Education (see Department of Art for more information)
- **Special Education** - (Intervention specialist, kindergarten through grade twelve). For teaching learners with Mild/Moderate Disabilities.

**Requirements for Admission to Teacher Education Licensure Programs**

Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the teacher education programs or candidacy for a teaching license. **Formal admission to teacher education is required before students are allowed to enroll in junior and senior level courses in their major.**

After candidates have completed a minimum of 50 semester hours and fulfilled all other admission requirements, they must submit an application for admission to the teacher education program (Upper Division). The application for Upper Division must be completed and submitted by:

- September 1st to register for Upper Division courses for Spring;
- February 1st to register for Upper Division courses for Summer and Fall.

Students who submit an application after the deadline are NOT guaranteed acceptance in time to register for Upper Division courses.

Each completed application will be reviewed and approved by the Upper Division Admission and Retention Committee. If all requirements are met, student will be allowed to register for Upper Division courses the following semester.

Admission to the Teacher Education Program (upper division) is obtained upon satisfactory completion of the following requirements:

- Minimum completion of 50 semester hours
- Minimum 2.75 overall GPA
- Minimum 2.75 in the major/teaching area and professional education courses
- An average of 2.67 in the major/teaching area and professional education courses (each computed separately with no grade less than a C)
- Completion of Good Moral Character Statement
- Completion of the Teacher Performance Assessment
- Completion of the program prerequisites
- Completion of the program prerequisites
- A Request for Graduation and/or Licensure Evaluation form should be completed and submitted in Banner one year prior to student teaching and/or application for licensure. This form generates a program evaluation to assure that the student meets graduation and/or licensure requirements.

**Requirements for Student Teaching**

Application for a student teaching must be filed with the Education Advisement Office, Beeghly Hall Room 2101 during the preceding semester in which student teaching is to be completed. Teacher candidates must register for 10 hours of student teaching and two hours for the student teaching seminar in their licensure area. Students anticipating more than one teaching license should seek advisement in Beeghly Hall Room 2101. To qualify for a student teaching assignment, the student must have satisfied the following requirements:

1. BCLASSE Upper Division Status
2. A minimum overall G.P.A. of 2.75
3. Completion of the program prerequisites
4. An average of 2.67 in the major/teaching area and professional education courses (each computed separately with no grade less than a C)
5. A passing score on the Ohio Assessment for Educators (OAE) tests and/or the equivalent as required by the Ohio Department of Education
6. Completion of a criminal background check

No additional courses may be taken with student teaching. The Administrator of Student Field Experiences must be notified in writing prior to a student’s attempt to register for course(s) outside of student teaching. Student teachers are required to complete, submit for national scoring, and pass the edTPA, Teacher Performance Assessment. The Department of TELS requires the passage of the edTPA with a minimum score of 39 (34 for Foreign Language) as one of the requirements for licensure. Student teaching may deviate from the University calendar depending on the academic calendar of the assigned school.

**Requirements for Licensure**

**Initial Licensure**

The Dean of BCLASSE has the authority to recommend to the Ohio State Board of Education, and other licensure agencies, those Youngstown State University graduates who qualify for licensure in any teacher education program offered by the University. Students earning degrees through other colleges must complete all requirements of the teacher education program in order to be licensed.
Licensure. All candidates for any teaching license must meet the requirements for program admission in TELS, but the degree earned may be conferred by any of the University colleges in accordance with the specific requirements for the degree desired.

However, an overall undergraduate grade point average of 2.75 and 2.67 in the major field(s) and professional-education courses must have been earned if the student is to be recommended for licensure by Youngstown State University, irrespective of the type of degree received. In addition, each candidate for licensure must pass the State of Ohio prescribed licensing examination(s) Ohio Assessments for Educators, ACTFL (foreign language) and the Teacher Performance Assessment (edTPA) prior to receiving YSU’s recommendation for licensure.

For more information regarding additional fields, or endorsements, consult the academic advisors in Beeghly Hall Room 2101.

Post-Baccalaureate Licensure
Post-baccalaureate students desiring Youngstown State University’s recommendation for licensure in Ohio and any other state must be admitted to the University. Post-baccalaureate students are advised in the undergraduate student advisement office (Beeghly Hall Room 2101) and are advised in the same manner as undergraduate students. They must meet the standard set of requirements for admission and upper-division status in BCLASSE. They must satisfy the teaching field, and professional education requirements comparable to the undergraduate program. Post-baccalaureate students may use approved, documented program equivalency to satisfy appropriate parts of the licensure program.

Licensure in a Second Teaching Field
Post-baccalaureate and undergraduate students seeking licensure in a second teaching field will need to satisfy the approved academic program as stated in the catalog under the section “Teaching Fields.” The same quality point requirements apply to second teaching fields as those for initial licensure. A passing score on the specialty exam of the State of Ohio for the second teaching field is required prior to YSU’s recommendation for the second teaching field.

Advisement
All prospective teachers are advised by the academic advisors in Beeghly Hall. Secondary students, middle childhood students, and multi-age students are also advised in the department in which their major or areas of concentration are located.

Title II, Higher Education Act
The United States Department of Education maintains data on pass rates on licensure exams for all institutions of Higher Education. The most recent data on the pass rate for Youngstown State University and other Ohio institutions is available on the Department of Education (https://title2.ed.gov/Public/Home.aspx) website. Please click here for the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act.

Curricula and Courses of Instruction
Each curriculum leads to an Ohio resident educator license. Minimum requirements for teachers’ licenses are determined by the Ohio Department of Education; if those requirements change, they become effective immediately at Youngstown State University. State department minimal requirements may be, and usually are, exceeded by University requirements.

Disclaimer: Educator Licensure tests and qualifying scores listed in the ODE charts and on the ODE website are subject to change by the Ohio State Board of Education.

For more information, visit The Beeghly Co (http://www.ysu.edu/academics/beeghly-college-education/) College of Liberal Arts, Social Sciences and Education.

Department of Teacher Education and Leadership Studies
Dr. M. Kathleen L. Cripe, Chairperson
Office: BCOE 1101
Office Phone: (330) 941-3251
Administrative Assistant: Amy Klacik

Mission
The mission of the Department of Teacher Education and Leadership Studies is to prepare teachers and administrators who provide quality instruction and leadership in an environment designed to meet the needs of diverse learners, and to assist them in developing 21st century skills.

Programs
Primary/Primary Intervention Specialist Education Grades P-5
• For teaching children who are typically developing, at-risk, gifted, and who have mild/moderate educational needs in the general education classroom.
• For teaching children with physical, cognitive, behavioral or communication delays. Primary intervention specialists can work inside a P-5 classroom, provide individual services to children within their homes, work with regionally based programs, medical providers or private education companies.

Middle Childhood Education (MCE) Grades 4-9
• For teaching learners in at least two of four curriculum concentration areas named on the teaching license. Students choose two areas from the following four: Language Arts Education, Mathematics Education, Science Education, and Social Studies Education

Adolescent/Young Adult Education (AYA) Grades 7-12
• For teaching learners in a curriculum area named on the teaching license. Students may choose from: Integrated Sciences Education, Integrated Language Arts Education, Integrated Mathematics Education, or Integrated Social Studies Education

Intervention Specialist Grades K-12
• For teaching learners with mild/moderate disabilities, grades K-12

Multi-Age Education (MULT) Grades PK-12
• For teaching in a curriculum area named on the teaching license. Students may choose from: Music Education, Visual Arts Education (please refer to The Cliffe College of Creative Arts (p. 265) for these program areas), Italian Education and Spanish Education

Early Childhood Associate Pre-K
• For teaching children in the pre-K classroom. Curriculum includes early childhood development, classroom management and building parent/professional relations. This program leads towards licensure to teach in daycare and preschool programs.

Endorsements (Endorsements may be added to a teaching license)
• Early Childhood Generalist Endorsement Grades 4-5
• Middle Childhood Generalist Endorsement (Language Arts, Mathematics, Science)
• Teaching English to Speakers of Other Languages (TESOL) Endorsement

Minors
• Education Minor: Students majoring in a program other than Education may select an Education minor. Please contact a Education Academic Advisor for more information.

Reading and Study Skills
The Department offers undergraduate Reading and Study Skills courses for students who are interested in improving reading and skills.

Course List

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Accreditation
Youngstown State University Teacher Education programs are accredited by the Council for the Accreditation of Educator Preparation (CAEP) for Initial and Advance Programs through 2024. Youngstown State University Teacher Education licensure and endorsement programs are fully approved by the Ohio Department of Higher Education (ODHE). Additional information regarding current accreditation status and CAEP Annual Reporting Measures can be found at Education Accreditation (https://ysu.edu/academics/beeghly-college-liberal-arts-social-sciences-education/education-accreditation/#measure8).

Chair
M. Kathleen L. Cripe, Ph.D., Associate Professor, Chair

Professor
Margaret L. Briley, Ph.D., Assistant Professor
Jeffrey M. Buchanan, Ph.D., Professor
Lauren Cummins, Ed.D., Professor
Pam Epler, Ph.D., Assistant Professor
Stacy Graber, Ph.D., Associate Professor
Charles Howell, Ph.D., Professor
Daniel Keown, Ph.D., Associate Professor
Mary E. LaVine, Ph.D., Associate Professor
J. Paul Louth, Ph.D., Associate Professor
Marcia Matanin, Ph.D., Professor
Nathan Myers, Ph.D., Associate Professor
Anita C. O’Mellan, Ph.D., Professor
Crystal L. Ratican, Ph.D., Associate Professor
Patrick T. Spearman, Ph.D., Associate Professor
James P. Treszel, M.A., Professor
Mandy Wallace, D.Ed., Assistant Professor

Courtney Cruz, M.S., Lecturer
Betty L. Greene, M.Ed., Senior Lecturer

Majors
• Early Childhood Associate Pre-K (p. 162)
• Primary/Primary Intervention Specialist (p. 159)
• Middle Childhood Education, (4-9) (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences-education/department-teacher-education-middle-childhood-4-9/)
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• Integrated Language Arts (7-12) - Adolescent License (p. 138)
• Integrated Mathematics (7-12) - Adolescent License (p. 141)
• Integrated Sciences (7-12) - Adolescent License, Biology Concentration (p. 143)
• Integrated Sciences (7-12) - Adolescent License, Chemistry Concentration (p. 146)
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• Special Education: Mild/Moderate Licensure (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences-education/department-teacher-education-special-liberal-arts-social-sciences-education-mild-moderate-licensure/)

Early Childhood Education
ECE 3713 Teaching of Mathematics: Early Years  3 s.h.
Using NCTM/NAEYC/NCATE and Ohio Model guidelines as the framework, focus on identifying and modeling developmentally appropriate strategies used for problem solving, communicating, and reasoning in early childhood mathematics. Learning to use mathematical connections to stimulate diverse students’ development of math concepts and skills and create learning environment combining mathematics pedagogy/methodology in an early grades classroom.
Prereq.: TELS Upper Division Status and approval of chair.
Coreq.: ECE 3713, ECE 3780, and ECE 4814.

ECE 3715 Teaching Science: Early Years  3 s.h.
Using NSTA/NCATE and Ohio Model guidelines as the framework, focus on establishing and maintaining learning environments that provide diverse students with a holistic, interdisciplinary understanding of science. Topics include teaching for meaningful science understanding, planning and providing an effective and supportive learning environment, planning and implementing curriculum and lessons appropriate for children in their early years, selection and use of instructional aids and resources, assessment, and professional development. Experiences that promote the use of science processes and problem-solving skills for life-long learning. Field experience combining science pedagogy/methodology in an early childhood setting.
Prereq.: TELS Upper Division Status and approval of chair.
Coreq.: ECE 3713, ECE 3780, and ECE 4814.
ECE 3780  Social Studies for Young Children  3 s.h.
Methods of teaching social studies to young learners (PreK-3) including exploration of a variety of effective teaching and assessment behaviors related to diverse learner needs. Use of key concepts, application of tools of social studies to foster social development and encourage independent problem solving, investigate the use of technology, create instructional resources; collaboratively plan, teach, and evaluate lessons in inclusive instructional settings; keep a reflective learning log.
Prereq.:  TELS Upper Division Status and approval of chair.
Coreq.:  ECE 3713, ECE 3715, and ECE 4814.

ECE 3790  Assessing Learning in Early Childhood Education P3  3 s.h.
This course examines the theoretical foundations and developmentally appropriate assessment strategies in a P-3 classroom. Candidates will explore a variety of informal, formal, formative and summative classroom assessment strategies and critically investigate standardized assessments used in the current national and state movements toward accountability and "high-stakes" assessment. This course is a required part of the TEC experience to provide candidates with an authentic classroom assessment experience.
Prereq.:  ECE 3760.

ECE 4814  Language Arts Methods in the Early Years (Ages 3-8)  3 s.h.
Teaching oral and written communication through consideration of listening, speaking, reading, viewing, and related skill areas in the elementary school.
Prereq.:  TELS Upper Division Status and approval of chair.
Coreq.:  ECE 3713, ECE 3715, and ECE 3780.

ECE 4841  Supervised Student Teaching: Early Childhood  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. Grading is CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester; criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Coreq.:  ECE 4842 and/or ECIS 4842.
Gen Ed:  Capstone.

ECE 4842  Student Teaching Seminar in Early Childhood Education  2 s.h.
Student Teaching seminar provides an opportunity to study relevant topics related to teaching and learning, application of professional and ethical practice and OSTP standards, research and theory, knowledge of learners, and reflection on practice. Completion of edTPA is required. CR/NC.
Prereq.:  TELS Upper-Division Status; Admission to Student Teaching in Early Childhood Education or Early Childhood/Early Childhood Intervention Specialist.
Coreq.:  ECE 4841 and/or ECIS 4841.

ECE 6910  Curriculum, Theories, and Methods in Early Childhood Education, Pre-K-Grade 3  3 s.h.
Investigation of curriculum, theories, and assessment and how they relate to children’s learning. Attention given to the role of parents as teachers.

ECE 6911  Early Childhood Pedagogy in Math and Science  4 s.h.
By exploring math and science teaching practice for grades K-3, the candidates will review teaching methods of math and science, find and design math and science programs and lessons, incorporate national and state standards in teaching math and science, and strengthen the assessment methods for classroom instruction. This course is linked to ECE 6921 in terms of an action research to solve real problems in teaching math and science for the participating teachers.

ECE 6920  Current Social Issues in Early Childhood Education  3 s.h.
Analysis of contemporary issues, trends, and current educational policies that impact classroom practice. Includes service-learning component.
Prereq.:  ECE 6910 or ECE 6911.

ECE 6921  Action Research in Early Childhood Education, Pre-K-Grade 3  3 s.h.
Designed as a culminating experience. Direct participation is required for the successful completion of a field study, onsite project, or other classroom-based experience deemed suitable by the student’s major faculty advisor.
Prereq.:  ECE 6911 and FOUN 6904.

Early Childhood Intervention Specialist

ECIS 2600  Educating the Whole Child  3 s.h.
This course is designed to provide teacher candidates with the knowledge and skills needed to educate the whole child. A balanced approach is studied which includes a strong foundation in core subjects in addition to the whole child tenets of: healthy, safe, engaged, supported, and challenged.

ECIS 2629  Best Practices in ECIS  3 s.h.
This course provides teacher candidates with a research-based inquiry into early childhood education and promotes the acquisition of knowledge, skills, and dispositions in candidates that will facilitate best practices within the field. Field Hours Required.
Prereq.:  TELS Upper Division Status, ECIS 2629, SPED 3715.
Coreq.:  CHFM 3733L.

ECIS 3790  Assessing Learning in Early Childhood Education PK3  3 s.h.
This course examines the theoretical foundations and developmentally appropriate assessment strategies in a PK-3 classroom. Candidates will explore a variety of informal, formal, formative and summative classroom assessment strategies and critically investigate standardized assessments used in the current national and state movements toward accountability and "high-stakes" assessment. This course is a required part of the preclinical experience to provide candidates with an authentic classroom assessment experience. Field hours required.
Prereq.:  TELS Upper-Division Status.

ECIS 4801  Teaching of Language Arts and Social Studies: The Early Years  4 s.h.
Candidates focus on identifying and modeling developmentally appropriate strategies used for problem solving, communicating, and reasoning in early childhood language arts and social studies. Candidates create effective learning environments using content-specific pedagogy to make connections to stimulate students' development of language arts and social studies concepts and skills in a diverse PK-3 classroom. Field Hours Required.
Prereq.:  TELS Upper-Division Status, ECIS 3700, TERG 3703, MATH 2652.
Coreq.:  ECIS 4802, ECIS 3790.

ECIS 4802  Teaching of Mathematics and Science: The Early Years  4 s.h.
Candidates focus on identifying and modeling developmentally appropriate strategies used for problem solving, communicating, and reasoning in early childhood math and science. Candidates create effective learning environments using content-specific pedagogy to make connections to stimulate students' development of math and science concepts and skills in a diverse PK-3 classroom. Field hours required.
Prereq.:  TELS Upper-Division Status, ECIS 3700, TERG 3703, MATH 2652.
Coreq.:  ECIS 4801, ECIS 3790.
ECIS 4841 Supervised Student Teaching: ECE/ECIS 1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC. Prereq.: TELS Upper Division Status with a minimum overall GPA 2.75, passing scores on OAE tests prior to the start of the student teaching semester; criminal background check, and successful completion of preclinical experience with minimum content of GPA 2.67, and professional education GPA of 2.67. Coreq.: ECIS 4842, ECE 4841.

ECIS 4842 Student Teaching Seminar in ECE/ECIS 2 s.h.
Student teaching seminar provides an opportunity to study relevant topics related to teaching and learning, application of professional and ethical practice and OSTP standards, research and theory, knowledge of learners, and reflection on practice. Completion of the edTPA is required. CR/NC. Prereq.: TELS Upper Division Status; Admission to Student Teaching in Early Childhood/Early Childhood Intervention Specialist Program. Coreq.: ECE 4841, ECIS 4841.

Early and Middle Childhood Education

EMCE 5801 Early Childhood Generalist Science 2 s.h.
By exploring science teaching practices and technologies for grades 4-5, the candidates will review teaching methods of science, master the content stated in the Ohio Academic Learning Standards, find and design science programs and lessons, incorporate the national and state standards in teaching science, and strengthen the assessment methods for the science classroom instruction.

EMCE 5802 Early Childhood Generalist Math 2 s.h.
By exploring math teaching practices and technologies for grades 4-5, the candidates will review instruction and assessment methods of mathematics, and master the content stated in the Ohio 2017 Learning Standards for Mathematics, and the Common Core Standards for Mathematics.

EMCE 5803 Early Childhood Generalist Language Arts 2 s.h.
Candidates will learn language arts content and teaching methods, design integrated lessons, incorporate state and national standards, and utilize assessment methods for grades 4-5.

EMCE 5804 Early Childhood Generalist the Arts, Health and Fitness 1 s.h.
Knowledge and application of the Arts, Health, and Fitness related to teaching practice for grades 4-5. Candidates will review content and methods of teaching the Arts, Health, and Fitness content as stated in the Ohio Academic Content Standards. Instruction on pedagogical strategies to include these content areas in the 4-5 curriculum.

EMCE 5805 Early Childhood Generalist Social Studies 2 s.h.
Candidates will learn social studies content, teaching methods, design integrated lessons, incorporate state and national standards, and utilize assessment methods for grades 4-5.

EMCE 5900 Early/Middle Childhood Education Workshop 1-4 s.h.
Intensive study of selected topics, issues, or problems of current interest in early and/or middle childhood education. Grading is S/U. May be repeated.

EMCE 5903 Early/Middle Childhood Education Workshop 1-4 s.h.
Intensive study of selected topics, issues, or problems of current interest in early and/or middle childhood education. Grading is S/U. May be repeated.

EMCE 6990 Independent Study 1-4 s.h.

Educational Foundations

EDFN 1501 Introduction to Education 3 s.h.
Historical, political, legal, cultural and ethical perspectives on the work and roles of teachers and schooling. Issues confronting educators, voters, parents and children. Observe the organization and governance of school districts. Field hours required.

EDFN 3708 Education and Society 3 s.h.
School as a dynamic social institution. An analysis of how schools interact with diverse communities and with social, political, and cultural institutions and traditions. Field hours required. Prereq.: Fifty semester hours.

EDFN 3710 Educational Assessment 3 s.h.
Critical review of types, purposes, procedures, uses, and limitations of assessment strategies and techniques including authentic assessment, value-added assessment, and alternate assessment. Standardized testing and implications for current practice. Prereq.: Upper Division.

Foundations of Education

FOUN 5875 Seminar in Foundations of Education 1-3 s.h.
Selected topics for a focused study on problems, issues, or concerns to be addressed by a sociological, historical, philosophical, assessment, or research perspective. Prereq.: Permission of chairperson.

FOUN 5880 Special Topics in Foundations of Education 1-3 s.h.
An advanced study of sociological, historical, and/or philosophically based research which provides analysis of a particular educational issue with special emphasis on implications for diverse populations and/or diverse school settings. Prereq.: Permission of chairperson.

Health Education Physical Education

HEPE 1567 Performance and Analysis of Invasion Games 3 s.h.
Analysis, performance, content and strategy development, teaching, and assessing of invasion games (basketball, football, soccer, team handball, rugby, ultimate frisbee, field hockey, floor hockey, and lacrosse). Two hour lecture, two hour lab.

HEPE 1574 Performance and Analysis of Target and Fielding Games 3 s.h.
Analysis, performance, content and strategy development, teaching, and assessing of target and field games (golf, bowling, softball, cricket and other lifetime activities). Two hour lecture, two hour lab.

HEPE 1575 Performance and Analysis of Net and Wall Games 2 s.h.
Performance and Analysis of performing and strategies for teaching/coaching and assessing net/wall games (badminton, pickleball, tennis, racketball, volleyball and other net/wall games. One hour lecture, two hours lab.

HEPE 1579 Rhythmic Movement for Children 1 s.h.
Content and teaching strategies related to rhythmic movement for children grades PreK-4. Rhythmic movement skills and concepts explored to provide successful dance experiences for children. One hour lecture, one hour lab. Prereq.: Physical education major.

HEPE 2610 Introduction to Outdoor Pursuits 3 s.h.
Introduction to outdoor education including participation in initiatives, cooperative, orienteering, hiking, high and low ropes, and water based outdoor pursuits. Focus on activities to challenge by choice. One hour lecture, two hour lab.

HEPE 2624 Physical Education for Children in Early Childhood Settings 3 s.h.
Principles, methods, materials, and organization of activities for preschool-grade 3 children. Active participation, approximately 15-20 hours field work in area preschools/schools. Prereq.: 30 hours.

HEPE 2628 Movement for Early Childhood 3 s.h.
Movement education approach to teaching fundamental movement patterns, educational dance, gymnastics, games, and creative activities for grades PreK-3. Two hours lecture, two hours lab. 20 hours field experience required. Prereq.: Physical Education major.
HEPE 2650  Ethics in Sport and Coaching  2 s.h.
An introduction to ethics in sport, exploring ethical issues in relation to coaching K-12 student athletes. Skills related to exploring ethical dilemmas and ethical decision making. Discussion of District, State and National policies related to ethics.

HEPE 2672  Mechanical Principles of Movement  3 s.h.
Knowledge and methods of mechanical concepts as they relate and apply to the structure and function of human movement. Muscular structure and function in relation to physical movement, analysis of fundamental human movements. Includes the physical characteristics of the human body and applicable principles of mechanical physics. Two hours lecture. Two hours lab.  
Prereq.: BIOL 1552, BIOL 1552L or BIOL 1545, BIOL 1545L.

HEPE 2689  Scientific Basis of Fitness  3 s.h.
Introduction to components of fitness and their physiological basis. Role of exercise and physical activity in the life of the P-12 learner. Application of training principles and participation in a variety of fitness activities. Introduction to physical fitness assessment. Two hour lecture, two hour lab.  
Prereq.: Physical Education major and PHLT 1568.

HEPE 3702  Health Education Theory and Methods  4 s.h.
Theory, curriculum and methods for teaching health education in P-12 classroom. Provides both content and pedagogical knowledge. 3 hour lecture and 2 hour lab. 20 hours of field experience required.  
Prereq.: PHLT 1568.  
Concurrent with: HEPE 3767.

HEPE 3715  Teaching of Middle School Health Education  3 s.h.
Curriculum, methods and materials for teaching middle school health education. Two hour lecture, Two hour lab. 60 field hours required.  
Prereq.: HEPE 3702, BIOL 1545 and TELS Upper Division Status.

HEPE 3716  Teaching of High School Health Education  3 s.h.
Curriculum, methods and materials for teaching high school health education. Two hour lecture and two hour lab. 60 field hours required.  
Prereq.: HEPE 3702, BIOL 1545 and TELS Upper Division Status.

HEPE 3740  Coaching the Young Athlete  3 s.h.
This course will address the pedagogy and practice of coaching sports with emphasis on youth sport development. The course will include coaching techniques, responsibilities, interaction with students and parents, injury prevention and sport psychology utilizing discussion, case method study, and practical application. The intent of the course is to help the student develop a coaching philosophy to positively affect youth sport development.  
Prereq.: HEPE 2689.

HEPE 3750  Organization and Management of Sport Programs and Events  2 s.h.
The purpose of the course is to provide students with an understanding of the responsibilities of administrators and coaches involved in K-12 athletics. Content will focus on sport team scheduling, athletic facility requirements, fundraising, budgeting, event planning, career networking/advancement, coaching acquisition and termination, and increasing sport programs of an athletic program. Students will be introduced to the requirements of set policies by the school district, athletic conferences, state athletic associations, state and federal law and the National Collegiate Athletic Association (NCAA).  
Prereq.: Junior standing.

HEPE 3766  Principles and Analysis of Motor Development  3 s.h.
Application of a lifespan motor development approach to critically analyzing movement patterns. Emphasis on motor development including biomechanical aspects of movement, and on teaching applications. Two hours lecture, two hours lab. 8 hours field experience required.  
Prereq.: BIOL 1545 and BIOL 1545L.

HEPE 3767  Pedagogy in P-12 Health Education and Physical Education  3 s.h.
Effective teaching practices and development of skills including classroom management, lesson planning, and selection of appropriate methods of instruction. Peer teaching and reflection. Two hours lecture, two hours lab. 20 hours of field experience required.  
Prereq.: 20 s.h. in major and HEPE 3766.

HEPE 3768  Advocacy and Best Practices in Health and Physical Education  2 s.h.
Emphasizes the advocacy role of the health and physical educator. Includes use of research and best practices documents to advocate for the inclusion of health and physical education for all P-12 learners. One hour lecture, two hour lab.  
Prereq.: 20 s.h. in Physical Education major or Health Education major and HEPE 3767.

HEPE 3780  Methods of Teaching Dance  3 s.h.
Movement skills and music concepts will be explored through rhythmic movement for all P-12 grade student learners. Rhythm and movement fundamentals and forms: creative expression, exploration, folk, square, contra, line, social and aerobic. Teacher candidates will learn how develop, plan, teach and assess dance for all student learners. Two hour lecture, two hour lab.  
Prereq.: HEPE 3767.

HEPE 4808  Standards Based Assessment in Health and Physical Education  3 s.h.
Theory, purposes, procedures, and uses of standards-based assessment for teaching P-12 health and physical education settings including cognitive, motor, and affective domains. Limitations of traditional assessment. Practical experience in designing assessments, collecting and analyzing data. Three hours lecture.  
Prereq.: Physical Education or Health Education major and admission to TELS Upper Division Status.

HEPE 4851  Cultural Aspects of Physical Education and Sport  3 s.h.
Survey of major historical, psychosocial developments, and philosophical issues in physical education and sport from ancient times to the present.  
Prereq.: Junior standing.

HEPE 4852  Psychosocial Aspects of Physical Education and Sport  2 s.h.
Survey of major psychosocial principles, developments and concerns as they relate to the participant in physical activity and sport.  
Prereq.: 20 s.h. in major.

HEPE 4860  Internship for Coaching Education  3 s.h.
The internship will consist of 180-220 field hours. The field experience will be in a youth sport and/or P-12 youth sport program. Examination of issues related to the coaching early childhood, middle childhood, special education, or adolescents/young adults program.  
Prereq.: HEPE 3740, HEPE 3750, and HEPE 3767.

HEPE 4876  Teaching of Elementary Physical Education  3 s.h.
Curriculum, methods and materials for teaching elementary physical education. Critical task includes completion of a learning segment in area schools. Two hours lecture, two hours lab. 60 hours field experience required.  
Prereq.: HEPE 3767 and TELS Upper Division Status.

HEPE 4878  Teaching of Middle/Secondary Physical Education  3 s.h.
Curriculum, methods and materials for teaching secondary physical education. Critical task includes completion of a learning segment in area schools. Two hours lecture, two hours lab. 60 hours field experience.  
Prereq.: HEPE 3767 and TELS Upper Division Status.

HEPE 4889  Selected Topics in Health and Physical Education  2 s.h.
In depth study of special topics in Health and/or Physical Education. Topics to be determined. Two hour lecture. 30 hours field experience required.  
Prereq.: HEPE 3768.  
Concurrent with: HEPE 3702.

HEPE 4895  Introduction to Adapted Physical Education  4 s.h.
Introduction to developmentally appropriate, inclusive physical education for P-12 learners. Emphasis on acquiring a basic understanding of planning, delivering, and assessing appropriate inclusive physical education experiences for all children. Approximately 20 hours of field work. Three hour lecture, two hour lab.  
Prereq.: HEPE 3766.
HEPE 4899  Physiological Effects of Exercise on Children and Adolescents  3 s.h.
Examining the body’s response to physical activity in relation to the P-12 learner. Study of how physical activity influences the body's systems. Primary focus is application in a physical education setting.
Prereq.: HEPE 3766.

HEPE 6900  Pedagogical Analysis  3 s.h.
Description and analysis of pedagogical theories, models, and practices in physical education with emphasis on teaching methodology, the improvement of teaching skills, and planning for maximum student learning.
Prereq.: HEPE 4851.

HEPE 6903  Curriculum Development  3 s.h.
Progressive development of the physical education curriculum for P-12 based on an analysis of contemporary curriculum theories and models in physical education. Emphasis on program planning and theory to practice.
Prereq.: HEPE 4899 or equivalent.

HEPE 6905  Contemporary Issues in Sport Pedagogy  3 s.h.
A critical investigation and analysis of contemporary sport pedagogy issues, trends, problems, and concerns.
Prereq.: HEPE 4800B.

HEPE 6910  Teaching of Motor Skills  3 s.h.
Analysis of research on motor learning and its application to the acquisition, the teaching, and the coaching of movement skills.

HEPE 6920  Mechanical Analysis of Motor Movements  3 s.h.
Scientific basis for teaching correct form for the exact execution of movement skills through the fundamental laws of physics pertaining to motion. Analysis of various motor activities to determine the proper mechanics for obtaining the most effective and efficient results.
Prereq.: HEPE 4899 or equivalent.

HEPE 6955  Physical Activity Principles for Children and Adolescents  3 s.h.
Scientific basis of physical fitness and its physiological basis. The role of health-related and performance-related physical fitness in physical activity and the lifespan. Analysis of acute responses and chronic adaptations of the body to the physiological demands of physical activity. A primary focus of the practical application to the teaching of physical education and sport coaching.
Prereq.: HEPE 4899 or equivalent.

Reading & Study Skills

RSS 1510A  Advanced College Success Skills  3 s.h.
A course designed to develop students' skills essential for college studying. The primary focus is improving the comprehension and retention of college textbooks. Major topics include reading rate flexibility, vocabulary growth, learning style preferences, and critical reading skills. Students meet for classroom instruction, computer-aided instruction, and small group tutoring sessions to discuss and practice strategies. Open to students based on Composition and Reading Placement Test (CRPT). Grading is A, B, C, NC. Does not count toward a degree.

RSS 1510B  Basic College Success Skills  3 s.h.
A course designed to acquaint and assist students in their transition to studying at the college level. Course content stresses development of skills in word recognition, vocabulary, and reading to find main ideas, supporting evidence and conclusions in college textbooks. Students meet for classroom instruction and small group tutoring sessions to discuss and practice various thinking, listening, and reading strategies to improve college performance. Open to students based on Composition and Reading Placement Test (CRPT). Grading is A, B, C, NC. Does not count toward a degree.

RSS 1510C  STEM Advanced College Success Skills  4 s.h.
Develops study skills in STEM disciplines by improving comprehension and retention of textbook and lecture materials. Covers reading rate flexibility, vocabulary growth, learning style preferences, critical reading, and problem solving. Uses classroom instruction, computer-aided instruction, and small group tutoring sessions to apply strategies, including STEM-based lecture applications. Grading: A, B, C, N/C. Does not count toward a degree.
Prereq.: ENGL 1540 and RSS 1510A.

RSS 1570  Approaches to Professional Assessments  2 s.h.
A course designed to assist students in preparation for graduate and professional-level standardized tests. Students will critically analyze the basic components of such tests. Emphasis will be placed on test requirements, test formats, guidelines for answering and scoring, and test-taking strategies.

RSS 1571  Approaches to Professional Assessments/Applications  1 s.h.
A course designed to prepare students for graduate and professional-level standardized tests. In study groups, students will critically analyze the basic components of the test for which they are preparing, including requirements, test formats, guideline for answering and scoring, and test-taking strategies, in conjunction with effective pedagogical procedures.

Secondary Education

SED 3706  Principles of Teaching Adolescents  3 s.h.
Classroom management, Instructional strategies, and technology integration for diverse learners in the high school classroom. Cross-disciplinary curriculum exploration. Reflection and analysis of peer and classroom teaching experience. Field hours required.
Prereq.: TELS Upper Division Status.
Coreq.: TERG 3711.

SED 4800B  Special Methods: Integrated Business  3 s.h.
Techniques used in teaching integrated business subjects. Observation of teaching in a vocational setting, presentation of a lesson in a secondary or vocational school, unit development, reflective writing. Organization, administration, implementation, and evaluation of vocational business education programs at the secondary and adult education levels.
Prereq.: TELS Upper Division Status and approval of chairperson.
Coreq.: SED 3706, TERG 3711 and FOUN 3710.

SED 4800C  Science Methods for Adolescent and Young Adult Learners  3 s.h.
Using NSTA/NCATE and Ohio content standards, candidates establish and maintain learning environments that provide diverse students with a holistic, interdisciplinary understanding of science. Background for teaching science, instructional strategies, classroom management, planning instruction, assessment, professional development, integration of content with inquiry emphasized. Field hours required.
Prereq.: TELS Upper Division Status, SED 3706, TEMC 3707, 24 s.h. science.
Coreq.: EDFN 3710.

SED 4800E  English Methods for Adolescent and Young Adult Learners  3 s.h.
Exploring and demonstrating reflective teaching methods for adolescent learning of English; planning instruction, execution of teaching/learning activities, representations of English concepts, authentic assessment, English communication, purposeful use of instructional technology, classroom management for effective teaching. Field hours required.
Prereq.: TELS Upper Division Status, SED 3706.
Coreq.: EDFN 3710.
SED 4800M  Mathematics Methods for Adolescent and Young Adult Learners  3 s.h.
Exploring and demonstrating reflective teaching methods for adolescent learning of mathematics: planning instruction, execution of teaching/learning activities, multiple representations of mathematical concepts, problem-solving strategies, authentic assessment, manipulative materials, mathematical communication, purposeful use of instructional technology; classroom management for effective teaching. Field hours required.
Prereq.:  TELS Upper Division Status and SED 3706.
Coreq.:  EDFN 3710.

SED 4800S  Social Studies Methods for Adolescent and Young Adult Learners  3 s.h.
Theory and practice in learning how to plan, execute, and evaluate social studies lessons that are empowering, interesting, and reflective. Topics include: creating thematic unit plans; interpreting academic standards; writing instructional objectives; creating authentic learning activities; authentic assessment; classroom management and democratic discipline. Field hours required.
Prereq.:  TELS Upper Division Status and SED 3706.
Coreq.:  EDFN 3710.

SED 4827  Supervised Student Teaching: Language (K-12)  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Gen Ed:  Capstone.

SED 4842  Supervised Student Teaching: High School  1-10 s.h.
Sixteen week supervised student clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Gen Ed:  Capstone.

SED 4842A  Student Teaching Seminar for Secondary Education  2 s.h.
Student Teaching seminar provides an opportunity to study relevant topics related to teaching and learning, application of professional and ethical practice and OSTP standards, research and theory, knowledge of learners, and reflection on practice. Completion of edTPA is required. CR/NC.
Prereq.:  TELS Upper Division Status; Admission to Student Teaching in AYA licensure program.
Coreq.:  SED 4827, SED 4842, SED 4843, SED 4844, SED 4845, SED 4846 or 4850.

SED 4843  Supervised Student Teaching: Art (K-12)  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Coreq.:  SED 4842A.
Gen Ed:  Capstone.

SED 4844  Supervised Student Teaching: Music (K-12)  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. Grading is CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Coreq.:  SED 4842A.
Gen Ed:  Capstone.

SED 4845  Supervised Student Teaching: Health (K-12)  1-10 s.h.
Sixteen week supervised clinical student teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. Grading is CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Coreq.:  SED 4842A.
Gen Ed:  Capstone.

SED 4846  Supervised Student Teaching: Physical Education (K-12)  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.:  TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Coreq.:  SED 4842A.

SED 4850  Supervised Student Teaching: Career/Technical  1-10 s.h.
Full-time 16 week student teaching in grades 4-adult supervised by University faculty and experienced career/technical practitioners licensed in the teaching subject of the candidate. Grading is CR/NC.
Prereq.:  TELS Upper Division Status, passing scores on PRAXIS II content and PLT test, criminal background check, and completion of adolescent/young adult or career/technical program excluding student teaching and student teaching seminar.
Coreq.:  SED 4842A.

SED 6920  Field Experience Supervision  2 s.h.

SED 6965  Supervised Student Teaching: High School  5 s.h.
Full-time 16-week student teaching in grades 7-12 supervised by University faculty and experienced A/YA practitioners licensed in the teaching subject of the candidate. To be taken concurrently with SED 6965A. Grading is S/U.
Prereq.:  Completion of all requirements for initial Adolescent/Young Adult licensure and permission of advisor.

SED 6990  Independent Study  1-4 s.h.
Individual investigation of advanced topics under guidance of selected staff.
Prereq.:  FOUN 6904.

SED 7042  Professional Development for Classroom Teacher Educators  2 s.h.
A restricted professional development course for classroom teacher educators invited to supervise the instructional program of student teachers and field experience students. The course concentrates on developing analytical observation, conferencing, evaluation, and supervision skills based on scientific knowledge and theoretical constructs.
Prereq.:  Invitation from YSU and endorsement from home school district to serve as a classroom teacher educator.
Cross-listed: EMCE 7042.
Special Education

SPED 2630  Individuals with Exceptionalities in Society  3 s.h.
Characteristics, adjustment problems, special needs with emphasis on educational solutions, co-teaching, and inclusionary practices. The laws and implementation; placement, programming, due process, resources recommended for accommodation of exceptional learners in diverse settings. Field hours required.
Coreq.: SPED 2630L.

SPED 2630L  Individuals with Exceptionalities in Society Laboratory Experience  0 s.h.
Laboratory experience for creating effective classroom environments for learners with special needs. Integrating the use technology to positively impact learning. Exercises designed to assist the student in better understanding the needs of all learners. Coreq: SPED 2630.

SPED 3715  Characteristics and Needs of Children and Youth with Mild/Moderate Disabilities  3 s.h.
Description and classification of students with mild/moderate disabilities and the impact on academic, social and emotional development. Relationship to the contributions of diverse disciplines to theory and practice. A developmental approach to motor, perceptual, cognitive, language and social-emotional functioning within inclusive educational settings. Use of Universal Design for Learning as a framework for accessible and varied learning opportunities for individuals with exceptionalities. Field hours required.
Prereq.: SPED 2630.

SPED 4828  Education for Children and Youth with Emotional Behavior Needs  4 s.h.
Instruction, curriculum and program development for youth who are identified with emotional disturbance and as a result are often in conflict with educational and social systems. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4831  Assessment and Referral in Early Childhood  3 s.h.
Development of skills in referral and assessment techniques for the regular early childhood educator with emphasis on both formal and informal methods such as observation, authentic assessment, standardized measures and interviewing. Attention to children with disabilities and/or gifts and talents. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4833  Characteristics and Needs of Exceptional Children and Youth with Moderate/Intensive Disabilities  3 s.h.
Identification and intervention in critical areas of development for individuals with moderate/intensive disabilities including autism. Developing objectives, planning and implementing adapted curriculum in consultation with interdisciplinary specialists.
Prereq.: TELS Upper Division Status and SPED 3715.

SPED 4834  Educational Strategies and Methods for Children and Youth with Moderate/Intensive Disabilities  4 s.h.
Curriculum planning, teaching methods, habilitation and rehabilitation for persons with multiple and/or severe developmental disabilities. Field hours required.
Prereq.: TELS Upper Division Status and SPED 4833.

SPED 4835  Classroom Management for Exceptional Children and Youth  4 s.h.
Development, implementation and evaluation of behavior management plans and strategies for students with exceptionalities in the classroom environment. Behavior management techniques to facilitate learning, self-management, and the development of social skills. Communicating effective management programs to parents, caregivers, teachers, and stakeholders. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4839  Supervised Student Teaching: Moderate/Intensive Intervention Specialist  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.: TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA 2.67.
Coreq.: SPED 4869.
Gen Ed: Capstone.

SPED 4849  Supervised Student Teaching: Mild Moderate/Disabilities  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.: TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA 2.67.
Coreq.: SPED 4869.
Gen Ed: Capstone.

SPED 4851  Transition Planning, Social Skill Development and Health-Related Issues  3 s.h.
Emphasis on lifelong career orientation and the development and implementation of a K-12 prevocational/vocational curriculum. Effective teaching of interpersonal communication and social skills. Classroom climate, self-esteem, health-related issues. Integration of practical experiences in the classroom, home, and community. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4852  Prog Development Instructional Strategies for Learners with Moderate to Intensive Except Learn Needs  3 s.h.
This course is designed to expand technical terminology and applied practices for candidates working towards licensure for students with moderate to intensive exceptional learning needs. Candidates will create individualized objectives, apply evidence-based practices, and report progress. Field hours required.
Prereq.: TELS Upper-Division Status and SPED 4834.

SPED 4853  Diagnosis and Intervention in Mathematics for Special Education  3 s.h.
Principles, practices, materials, and aids for teaching mathematics in special education, including diagnosis and evaluative procedures, individualized instructional techniques. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4854  Cross-Curricular Interventions  4 s.h.
Field application of principles of reading in the content areas, organization and implementation of cross-curricular content areas across grade levels. Includes management of special education/inclusionary classrooms. Field hours required.
Prereq.: TELS Upper Division Status, SPED 4828, SPED 4834, or SPED 4868.

SPED 4857  Applied Technology in the Education of Children and Youth with Disabilities  4 s.h.
Explores various concepts related to the use of applied technology for children and youth with disabilities. Includes assistive technology and alternative modes of communication as well as the use of appropriate software.
Prereq.: Admission to upper-division COE status.
SPED 4864  Service Coordination, Collaboration, and Consultation for Students with Special Needs  3 s.h.
Methods and strategies for the cooperation and involvement of related services professionals, parents, and children in the coordination of comprehensive educational and service plans. Collaboration, communication skills and sensitivity to individual and cultural differences are stressed. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4866  Assessment and Referral of Exceptional Children and Youth for the Intervention Specialist  3 s.h.
Development of skills in referral and assessment techniques in the areas of mild/moderate and moderate/intensive disabilities. Informal and formal methods including observation, authentic assessments, standardized measures, interviewing. Referral, initial and subsequent evaluation, annual review concerns.
Prereq.: TELS Upper Division Status.

SPED 4867  Intervention and Remediation of Receptive/Expressive Language Dysfunction  3 s.h.
Theory and practice of intervention and remediation of basic cognitive processes especially in the areas of receptive and expressive language and cognitive skills for the intervention specialist. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 4868  Mild/Moderate Disabilities Practicum  4 s.h.
Diagnostic procedures used to develop a comprehensive assessment of a child's current functioning. Individualized education program/case study developed and partially implemented. Field hours required.
Prereq.: TELS Upper Division Status, SPED 4866 and SPED 4867.

SPED 4869  Student Teaching Seminar for Special Education  2 s.h.
Student Teaching seminar provides an opportunity to study relevant topics related to teaching and learning, application of professional and ethical practice and OSTP standards, research and theory, knowledge of learners, and reflection on practice. Completion of edTPA is required. CR/NC.
Prereq.: TELS Upper Division Status; Admission to Student Teaching in Special Education.
Coreq.: SPED 4839 and/or SPED 4849.

SPED 4872  Assessment and Referral for Children and Youth with Exceptionalities for the Intervention Specialist  3 s.h.
Development of skills in referral and assessment techniques for the special educator in the areas of moderate/intensive disabilities. Emphasis will be given to informal and formal methods such as observation, authentic assessment, alternate assessment, rubrics, inventories, interviewing, task analysis, functional behavioral analysis, curriculum based measurement and formal standardized measures.
Prereq.: TELS Upper Division Status.

SPED 4873  Communication and Literacy Skills for Learners with Significant Disabilities  3 s.h.
This course focuses on enhancing functional communication and literacy skills of students with severe disabilities. Assessment and strategies to increase communication form, function and literacy are covered. The course addresses aided and non-aided augmentative systems and alternative communication systems with an emphasis on using a multi-modality approach.
Prereq.: TELS Upper Division Status.

SPED 5810  Introduction to Sign Language  3 s.h.
Deaf Culture, ASL, and English Sign Language differences will be discussed. Students will acquire basic proficiency in sign language.

SPED 5828  Education for Children and Youth with Emotional and Behavior Needs  4 s.h.
Instruction, curriculum and program development for youth who are identified with emotional disturbance and as a result are often in conflict with educational and social systems. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 5833  Characteristics and Needs of Exceptional Children and Youth with Moderate/Intensive Disabilities  3 s.h.
Identification and intervention in critical areas of development for individuals with moderate/intensive disabilities including autism. Developing objectives, planning and implementing adapted curriculum in consultation with interdisciplinary specialists.
Prereq.: Upper-division status in COE, SPED 3715.

SPED 5834  Educational Strategies and Methods for Children and Youth with Moderate/Intensive Disabilities  4 s.h.
Curriculum planning, teaching methods, habilitation and rehabilitation for persons with multiple and/or severe developmental disabilities. Practicum included.
Prereq.: Upper-division status in COE, SPED 5833.

SPED 5835  Classroom Management for Exceptional Children and Youth  4 s.h.
Development, implementation and evaluation of behavior management plans and strategies for students with exceptionalities in the classroom environment. Behavior management techniques to facilitate learning, self-management, and the development of social skills. Communicating effective management programs to parents, caregivers, teachers, and stakeholders. Field hours required.
Prereq.: TELS Upper Division Status.

SPED 5851  Transition Planning, Social Skill Development and Health-Related Issues  3 s.h.
Emphasis on lifelong career orientation and the development and implementation of a K-12 prevocational/vocational curriculum. Effective teaching of interpersonal communication and social skills. Classroom climate, self-esteem, health-related issues. Integration of practical experiences in the classroom, home, and community.
Prereq.: Upper-division status in COE.

SPED 5852  Prog Development Instructional Strategies for Learners with Moderate to Intensive Except Learn Needs  3 s.h.
This course is designed to expand technical terminology and applied practices for candidates working towards licensure for students with moderate to intensive exceptional learning needs. Candidates will create individualized objectives, apply evidence-based practices, and report progress. Successful completion of a 30 hour field experience is required.
Prereq.: Admission to TELS Upper Division Status, SPED 5834.

SPED 5853  Diagnosis and Intervention in Mathematics for Special Education  3 s.h.
Principles, practices, materials and aids for teaching mathematics in special education. Diagnostic and evaluation procedures; individualized instructional techniques; observation, tutoring, and participation. Field experience required.
Prereq.: Upper-division status in COE.

SPED 5858  Intervention Concepts and Strategies in Early Childhood Special Education  2 s.h.
Review and analysis of the methods by which young children construct knowledge about their physical, social and intellectual worlds. Study of patterns of normal and atypical development from birth through age eight, as well as the development of appropriate models for effective intervention.
Prereq.: PSYC 3755.

SPED 5864  Service Coordination, Collaboration, and Consultation for Students with Special Needs  3 s.h.
Methods and strategies for the cooperation and involvement of related services professionals, parents, and children in the coordination of comprehensive educational and service plans. Collaboration, communication skills and sensitivity to individual and cultural differences are stressed. Field hours required.
Prereq.: TELS Upper Division Status.
SPED 5865 Workshop in Special Education 1-4 s.h.
Intensive study and related activities in one or more of the following special education curriculum areas: trainable mentally retarded, educable mentally retarded, learning disability/behavior disorder, multi-handicapped. May be repeated if content is different.
Prereq.: Admission to upper-division COE status.

SPED 5866 Assessment and Referral of Exceptional Children and Youth for the Intervention Specialist 3 s.h.
Development of skills in referral and assessment techniques in the areas of mild/moderate and moderate/intensive disabilities. Informal and formal methods including observation, authentic assessments, standardized measures, interviewing. Referral, initial and subsequent evaluation, annual review concerns.
Prereq.: TELS Upper Division Status.

SPED 5867 Intervention and Remediation of Receptive/Expressive Language Dysfunction 3 s.h.
Theory and practice of intervention and remediation of basic cognitive processes especially in the areas of receptive and expressive language and cognitive skills for the intervention specialist.
Prereq.: Upper-division status in COE.

SPED 5868 Mild/Moderate Disabilities Practicum 4 s.h.
Diagnostic procedures used to develop a comprehensive assessment of a child's current functioning. Individualized education program/case study developed and partially implemented. Field hours required.
Prereq.: TELS Upper Division Status, SPED 5866 and SPED 5867.

SPED 5870 Independent Study in Special Education 1-4 s.h.
Individual work under special education staff guidance; curriculum development or special education areas; individual problems in community agencies or school.
Prereq.: Admission to upper-division COE status.

SPED 5871 Characteristics and Needs of Gifted Children 3 s.h.
Introduction to gifted education. Overview of the theoretical and research base for gifted education, including appropriate classroom environments, teacher qualifications, and support services to meet the diverse social, emotional, and intellectual needs of gifted children. Current program standards.
Prereq.: Admission to COE upper-division status.

SPED 5872 Assessment and Referral for Children and Youth with Exceptionalities for the Intervention Specialist 3 s.h.
Development of skills in referral and assessment techniques for the special educator in the areas of moderate/intensive disabilities. Emphasis will be given to informal and formal methods such as observation, authentic assessment, alternate assessment, rubrics, inventories, interviewing, task analysis, functional behavioral analysis, curriculum based measurement, DiBELS/SWIS, and formal standardized measures.
Prereq.: Admission to TELS Upper Division Status.

SPED 5873 Communication and Literacy Skills for Learners with Significant Disabilities 3 s.h.
This course focuses on enhancing functional communication and literacy skills of students with severe disabilities. Assessment and strategies to increase communication form, function and literacy are covered. The course addresses aided and non-aided augmentative systems and alternative communication systems with an emphasis on using a multi-modality approach.
Prereq.: Admission to TELS Upper Division Status.

SPED 5878 Teaching Gifted and Talented Students 4 s.h.
Theory and organization of curriculum with design and integration of content subjects into varying models. Wide range of strategies and identification of resources and materials as well as investigations in educational technology and appropriate applications for gifted children.
Prereq.: Upper division status in COE; SPED 5871 and permission of instructor.

SPED 5965 Special Education Workshop 1-5 s.h.
A workshop designed to examine contemporary topics in the field.

SPED 6900 Issues, Trends & Ethical, Legal and Professional Guidelines in Special Education 3 s.h.
This course is designed to provide the candidate with an exploratory study of the issues, trends, as well as the ethical, legal and professional guidelines in special education. Candidates will become familiar with legal policies and procedures as well as practice ethical guidelines as related to students with exceptionalities. Candidates will understand how to advocate for improvements for learners with exceptionalities and their families as well as design and implement professional learning activities to increase their own practices.
Prereq.: Admission to TELS Upper Division Status, SPED 5866 and SPED 5867.

SPED 6901 System-Wide Consultation/Collaboration in the Schools 3 s.h.
Current educational practices have made collaboration an essential way education professionals do their work. This course will cover the theoretical bases and consultation/collaboration skills necessary for affecting change in the educational environment from a system wide perspective. The aim of this course is to prepare Intervention Services students to function as collaborative consultants promoting systematic and planned strategies for use within the public schools and with families with children with disabilities.

SPED 6905 Cultural/Ethnic Issues Relating to Youth and Families 3 s.h.
Introduces pertinent theoretical cultural issues which relate to mental health professionals as they work with diversified populations. In particular, therapeutic skill enhancement of professionals will be advanced, since all counseling may be seen as cross-cultural. Group work and experiential exercises will provide an avenue for the professional and personal cultural growth of each participant. The goal is to also enhance participant's level of cultural sensitivity.

SPED 6906 Understanding and Addressing the Characteristics and Behaviors of Learners with Exceptional Needs 3 s.h.
This course is designed to provide the candidate with the knowledge and understanding of how individuals with exceptionalities grow and develop in an inclusive learning environment. Candidates will understand how multiple influences, including diversity, families, communities and individual differences shape an individual with an exceptionality's development and learning. The candidate will then use this knowledge to develop high-quality learning experiences based on strengths and needs.

SPED 6907 Guidelines for Teaching Children Who are Deafblind With and Without Concomitant Disabilities 4 s.h.
This course focuses on understanding and meeting the needs of children with multiple disabilities and/or concomitant conditions in addition to visual impairment in P-12 settings. In particular, this course will emphasize the needs of the child who has combined hearing-vision loss (i.e., deafblindness or dual sensory impairments). The additional concomitant conditions may include autism, traumatic brain injury, intellectual disability, orthopedic impairments, and/or the impact of various syndromes. There is a supervised 30 field experience associated with the course.

SPED 6908 Practicum in Visual Impairment 2 s.h.
This course represents the clinical practice/practicum portion of the EDVI program. Fifty hours of practicum experience will take place in a variety of instructional and age/grade level setting serving children with VI.
Prereq.: SPED 6907.

SPED 6909 Assessment and Intervention for Students with Low Incidence Disabilities 3 s.h.
Emphasis will be on current most effective practices of the professional collaboration process across three tiers of service to include specific models and strategies for students in general education and especially those with autism and/or a low incidence disability. Candidates will develop a team training model and will evaluate evidence-based practices.

SPED 6911 International Area Study: Project Learning Around the World 3 s.h.
This course is designed to enhance mental health or teacher's professional and personal level of sensitivity and competence via introducing them to innovative and traditional forms of intervention or healing in community and school settings in a developing country. Students will participate in philanthropic activities by helping to gather and deliver educational supplies via Project Learning Around the World (www.platw.org).
SPED 6912  Multilevel Tier Interventions Across General Education and Special Education Programming  3 s.h.
Direct experiences in planned multilevel interventions across the three tiers of services within educational school systems for regular education and children with disabilities. Participation in RTI team meetings, curriculum academic and applied and functional behavioral analysis, progress monitoring, goal attainment scaling and determining effectiveness of intervention plans will be introduced.

SPED 6914  Positive Behavior Supports/Intervention Strategies to Support Social-Emotional Needs of All Learners  3 s.h.
This course is designed to address the social-emotional and behavioral needs of children with mild to intensive needs, including those needing intensive support due to disability or trauma. It provides education candidates with effective routines and procedures consistent with the science of Applied Behavior Analysis (ABA) to create a safe, caring, respectful and productive learning environment as well as a range of preventive and responsive practices. Candidates will apply specific tools grounded in the principles of ABA with ethical strategies being of particular focus. Candidate skills will be grounded in the ability to plan, implement and evaluate behavioral interventions and social skills programs within any special education service delivery model.

SPED 6915  Classroom Management and Crisis Intervention for Learners with Severe Emotional and Behavior Disor  3 s.h.
Behavior analysis, behavior management, instruction, curriculum and program development for youth with severe emotional and/or behavior disorders. Advanced behavior change interventions and a practicum consisting of work in the field with emotionally and/or behaviorally disturbed youth required.
Prereq.: Successful completion of SPED 6909.

SPED 6916  Planning, Teaching, Accommodating and Assessing Learners with Mild-Intensive Exceptional Needs  3 s.h.
This course is designed to provide the candidate with knowledge of general and specialized curricula for students with exceptionalities. Based on each individual’s needs, the candidate will understand how to use rigorous content standards to plan, accommodate and assess the curricula across all content area. The candidate will grasp how to modify the general and specialized curricula to make them accessible and in alignment with the rigorous content standards for individuals with an exceptionality.

SPED 6917  Effective Instruction for Learners with Exceptional Needs  3 s.h.
This course is designed to provide the candidate with the knowledge about individuals with an exceptionality development and assessment data to inform decisions about effective instruction. Candidates will understand how to use explicit and systematic instructional strategies including active student engagement and motivation, differentiated instruction, flexible and small groups, specialized individualized instruction, self-regulated learning and meta-cognition strategies. The candidate will then use this knowledge to plan and guide instruction to meet the rigorous content goals for each individual with an exceptionality’s academic and social-behavioral needs.

SPED 6927  Curriculum Design, Adaptations and Resources for Learners with Mild/Moderate Exceptional Learning  3 s.h.
Knowledge of curriculum terminology approaches and models, content, and design to provide and enhance access to the general curriculum for students with exceptional learning needs. Course focuses on the skills to select and implement curricular adaptations for learners with exceptional learning needs within the general education classroom.
Prereq.: Successful completion of SPED 6906.

SPED 6928  Transition to Adult Life  3 s.h.
This course is designed to provide candidates with best practices of the professional collaboration process to include specific models and strategies to improve the transition from school to adult life, including career readiness, community, and domestic skills for students with mild to intensive learning needs. Candidates will develop a team training model and evaluate evidence-based practices regarding the transition process for students. Individual strengths and characteristics will be considered to facilitate social, vocational, and daily living skills for all learners. Successful completion of field related assessment project is required.

SPED 6929  Assessment of Exceptional Learners  3 s.h.
This course focuses on the educational assessment process for exceptional learners. Topics include state and federal regulations, data collection techniques, formative and summative assessment, and test interpretation. Importance of instructional alignment between objectives, assessment, and instructional strategies.

SPED 6930  Instructional Methodologies for Learners with Mild/Moderate and Moderate/Intensive Exceptional Lea  4 s.h.
This course is designed to provide candidate with the opportunity to research, study and apply instructional strategies and delivery systems in the four major content areas. The candidates will use the referenced strategies to both support and promote single subject and cross-curricular high quality instruction for candidates with special needs.
Prereq.: Successful completion of SPED 6914, SPED 6927, SPED 6928, SPED 6929.

SPED 6931  Field-based Practicum with Exceptional Learners in Grades K-6  3 s.h.
Practicum experience, with mild/moderate exceptional learners within grades K-6, in which the candidate acquires and demonstrates the knowledge, skills, and dispositions to design and implement data guided standards-based instruction with differentiated methods, assessments that promote learner growth including effective feedback, and collaboratively work with teacher(s), parents/guardians, and related service professional(s) to implement instruction to meet learners’ diverse needs. Field hours required.
Prereq.: SPED 6900, SPED 6906, SPED 6914, SPED 6916, SPED 6917, SPED 6928, SPED 6929.

SPED 6932  Field-based Practicum on Inclusive Practices with Exceptional Learners in Grades 7-12  3 s.h.
This course focuses on the educational assessment process for exceptional learners. Topics include state and federal regulations, data collection techniques, formative and summative assessment, and test interpretation. Importance of instructional alignment between objectives, assessment, and instructional strategies.

SPED 6933  Field-based Practicum with Moderate/Intensive Exceptional Learners in Grades K-6  3 s.h.
This course is designed to provide candidate with the opportunity to research, study and apply instructional strategies and delivery systems in the four major content areas. The candidates will use the referenced strategies to both support and promote single subject and cross-curricular high quality instruction for candidates with special needs.

SPED 6934  Field-based Practicum with Moderate/Intensive Exceptional Learners in Grades 7-12  3 s.h.
Practicum experience, with moderate/intensive exceptional learners within grades K-6, in which the candidate acquires and demonstrates the knowledge, skills, and dispositions to design and implement data guided standards-based instruction with differentiated methods, assessments that promote learner growth including effective feedback, and collaboratively work with teacher(s), parents/guardians, and related service professional(s) to implement instruction to meet learners’ diverse needs. Field hours required.

SPED 6935  Special Topics in Disabilities Education  1-4 s.h.
Workshop will include information on various current topics appropriate to the education of students with disabilities. These include assessment, identification, and instructional processes.
Prereq.: PRAXIS passage.

SPED 6986  Severe Behavior Disorders  3 s.h.
A comprehensive analysis of programs and the description of the delivery of services to a wide range of seriously emotionally disturbed children and youth.
Prereq.: SPED 6906 or SPED 6983.
SPED 6991  Referral and Assessment in Early Childhood Special Education  3 s.h.
Intensive hands-on experience in referral and assessment of young children. Emphasis on philosophies and ethical considerations, as well as techniques, instruments, and the referral process. Participation within the assessment team with parents involved as equal partners in the multidisciplinary process. Written assessment reports are required based upon knowledge of child development and a variety of sources of input.
Prereq.: Admission to College of Education upper division; SPED 5858.

SPED 6992  Teaching Methods in Early Childhood Special Education  3 s.h.
Examines accepted curricular models in early childhood special education, as well as classroom management and motivation strategies as they relate to young children with special needs. Emphasizes the inclusion of parents in planning process. Students will learn to integrate curriculum with individual IEP/IFSP goals and objectives.
Prereq.: SPED 5858.

SPED 6993  Health and Related Issues in Early Childhood Special Education  2 s.h.
A study of curricular experiences focusing on those aspects of early childhood special education dealing with the instructional applications of technology and the use of adaptive equipment and related services as these relate to technologically dependent or chronically ill children.

SPED 6996  Teaching Strategies/Autism  4 s.h.
Application of assessment, curriculum planning, preparation of materials and practice teaching methods for students with autism spectrum disorders and related disabilities. Methodology emphasizes most effective practices for instructing students who need academic and/or life skills curricula.
Prereq.: SPED 6914 or equivalent.

SPED 6998  AAC Strategies  3 s.h.
Assessment and application of methods to increase communication form, function, and literacy for individuals who need alternate and/or augmentative communication (AAC).
Prereq.: SPED 6996 and PSYC 6960 or PSYC 6990.

SPED 7042  Professional Development for Classroom Teacher Educators  2 s.h.
A restricted professional development course for classroom teacher educators invited to supervise the instructional program of student teachers and field experience students. The course concentrates on developing analytical observation, conferencing, evaluation, and supervision skills based on scientific knowledge and theoretical constructs.
Prereq.: Invitation from YSU and endorsement from home school district to serve as a classroom teacher educator.

SPED 7077  Leadership in Special Education  3 s.h.
The course focuses on leadership, administration, and supervision of a broad range of programs and services for students with exceptionalities (students with disabilities). Topics include review of theoretical foundations, historical and sociological issues as these relate to education for special populations, as well as in-depth study of federal and state legal issues, differentiated programming and procedures, student identification and placement, individualized education plans, due process, lease restrictive environment, and program monitoring and evaluation.

Teacher Education Middle Childhood

TEMC 3702  Teaching & Learning in Middle Schools  3 s.h.
Physical, social, emotional, intellectual, and moral development within social and cultural contexts to uncover implications for developmentally and culturally responsive curriculum and instruction.
Prereq.: TELS Upper Division Status.

TEMC 3703  Thematic Instruction and Assessment Methods in Social Studies  3 s.h.
Investigation and application of principles from history, geography, civics, economics, and related fields to create appropriate learning experiences for early adolescents. Exploration of middle grade level group and individual assessment, thematic, problem-solving instructional approaches, and reflective evaluation of learning in a field-based setting.
Prereq.: TEMC 3702, TELS Upper Division Status, and approval of chairperson.
Coreq.: TEMC 4801 and one of TEMC 3704, TEMC 3705, or TEMC 3706.

TEMC 3704  Teaching Mathematics in the Middle School  3 s.h.
Focus on identifying and modeling strategies used for problem solving, communicating, and reasoning in mathematics. Learning to use mathematical connections to stimulate diverse students’ development of math concepts and skills and creating learning environments in which students feel free to take risks. Field experience combining mathematics pedagogy/methodology in a middle grade classroom.
Prereq.: TEMC 3702, TELS Upper Division Status and approval of chairperson.
Coreq.: TEMC 4801 and one of TEMC 3703, TEMC 3705, or TEMC 3706.

TEMC 3705  The Teaching of Science in the Middle School  3 s.h.
Using NSTA/NCATE and Ohio Model guidelines as a framework, students focus on establishing and maintaining learning environments that provide diverse students with a holistic, interdisciplinary understanding of science. Topics include goals formation, planning instruction, instructional strategies, resource selection, assessment procedures. Promotion of the use of science processes and problem-solving skills for life-long learning, the integration of science/technology/society. Field experience combining science pedagogy/methodology in a middle grades classroom.
Prereq.: TEMC 3702, 12 s.h. science, TELS Upper Division Status, and approval of chairperson.
Coreq.: TEMC 4801 and one of TEMC 3703, TEMC 3704, or TEMC 3706.

TEMC 3706  Teaching Language Arts in the Middle School  3 s.h.
Integrated strategies for enabling diverse students to participate successfully in the activities of a literate society through listening, viewing, and communicating orally and in writing. Emphasis on integration of the language arts, higher order thinking skills, flexibility in applying the language arts in meaningful contexts across the curriculum.
Prereq.: TEMC 3702, TELS Upper Division Status, and approval of chairperson.
Coreq.: TEMC 4801 and one of TEMC 3703, TEMC 3704, or TEMC 3705.

TEMC 3707  Science/Technology/Society  3 s.h.
In-depth exploration of science/technology/society connections. A subject matter-problem-solving-learning environment triad provides opportunities for study of real-life, personal, and societal science and technology problems. Field experience in which students assess STS problems, devise solutions, apply and evaluate knowledge for community improvement.
Prereq.: TELS Upper Division Status, 12 s.h. science.

TEMC 4801  The Middle School Learning Community  3 s.h.
History, philosophy, and concepts of middle level education, including interdisciplinary instruction, collaborative teams, cooperative learning, classroom management, teacher-based advisory programs, flexible scheduling, cross-age grouping, departmentalized/core curriculum, adapting curriculum to the needs of culturally diverse populations, and working with families, resource persons, and community groups.
Prereq.: TEMC 3702, TELS Upper Division Status, and approval of chairperson.
Coreq.: Two of TEMC 3703, TEMC 3704, TEMC 3705, or TEMC 3706.

TEMC 4802  Student Teaching: Middle Childhood  1-10 s.h.
Sixteen week supervised clinical teaching experience in licensure area. Provides candidate with opportunities to apply knowledge and skills, and display dispositions needed to effectively teach in diverse classrooms. CR/NC.
Prereq.: TELS Upper Division Status with a minimum overall GPA of 2.75, passing scores on OAE tests prior to the start of the student teaching semester, criminal background check, and successful completion of respective preclinical experience, with minimum content GPA of 2.67 and professional education GPA of 2.67.
Coreq.: TEMC 4803.
Gen Ed: Capstone.
TERG 3701 Phonic Awareness and Phonics Instruction 3 s.h. 
Phonics subject matter, instructional strategies and applications, and planning for intensive, phonics-based word analysis in the early and middle stages of literacy acquisition. Field hours required. 
Prereq.: TERG 2606.

TERG 3702 Developmental Reading Instruction 3 s.h. 
The principles of teaching developmental reading in the elementary school. Theories and related models of reading, various approaches to teaching reading and writing, and delivery of instruction in the elementary school. Field hours required. 
Prereq.: TERG 2601 or TERG 2610.

TERG 3703 Assessment and Instruction in Reading 3 s.h. 
Application and interpretation of selected formal and informal assessment tools. Strategies for ensuring diverse students' growth in reading and the related language arts through ongoing assessment. Field hours required. 
Prereq.: TERG 2601 or TERG 2610 and TERG 3701 and TERG 3702 and admission to TELS Upper Division Status.

TERG 3711 Reading Application in Content Areas, Secondary Years 3 s.h. 
Study of Ohio's Learning Standards for English Language Arts, comprehension skills, word attack skills, study skills, pre-reading strategies, and writing development as they relate to content area reading in secondary years. The role of literature in the content area classroom. Field hours required. 
Prereq.: 50 semester hours completed.

TERG 3720 Developmental Reading Instruction: Vocabulary, Comprehension, and Writing 3 s.h. 
The principles of teaching developmental reading in the elementary and middle grades with emphasis on vocabulary, comprehension, and writing instruction. Evidence-based strategies to meet the diverse learning needs of all students are practiced. Field hours required. 
Prereq.: TERG 2605.

TERG 3730 Reading Assessment, Instruction, and Intervention 3 s.h. 
Administration and interpretation of selected formal and informal assessment measures. Strategies for ensuring diverse students' growth in literacy through ongoing assessment and progress monitoring. Field hours required. 
Prereq.: TERG 2605; TERG 3700; TERG 3720.

TERG 6917 Literacy, Reading, and Language Arts Programs 3 s.h. 
A critical appraisal of literacy, reading, and language arts programs in schools and an analysis of contemporary methodological issues.

TERG 6922 Organizing and Managing Diverse Literacy Environments 3 s.h. 
An examination of the physical and social contexts of diverse literacy environments that integrate foundational knowledge, cultural and linguistic backgrounds, use of research-based instructional practices, curriculum materials, and assessment-based decision-making.

TERG 6923 Literacy and Phonics Instruction 3 s.h. 
An investigation of the philosophy, principles, and practices of reading and writing instruction. An examination and application of formal and informal assessment procedures as well as an investigation of the language learning needs of diverse populations.

TERG 6924 Content Literacy 3 s.h. 
An investigational of research-based philosophies, principles, and best practice for applying content-specific concepts, vocabulary, and engagements while using the language arts and study skills in ensure comprehending.

TERG 6926 Reading and Language Arts Assessment 3 s.h. 
An examination and application of formal and informal assessment procedures in reading and language arts including the use of background information and discrete data. Data analysis, interpretation, and translations to instruction are applied.

TERG 6927 Practicum: Coaching for Effective Literacy Instruction 3 s.h. 
An application of literacy coach practices in assessment-based decision-making, research-based instruction, and preparation and delivery of high-quality professional development using techniques for working with individual teachers in a coaching context and groups of teachers in whole-group PD settings.

TERG 6928 Practicum: Case Study in Reading and Language Arts 3 s.h. 
Application of previous course content involving supervised formal and informal assessment of school-age pupils, developing an individualized reading plan, selecting appropriate instructional practices and materials, maintaining tutoring logs, developing a student portfolio, evaluating results of instruction, and writing a case study report. 
Prereq.: TERG 6926.
TERG 6929  The Reading and Language Arts Professional  3 s.h.
Investigation of theories and performance-based procedures for creating, analyzing, guiding, and changing school- and system-wide reading and language arts programs.
Prereq.: TERG 6926.

**Teacher Education, Department of**

**TCED 1500  Introduction to Becoming a Teacher First Year Experience Course**
**BCOE  3 s.h.**
This course will focus on practical and academic preparation to enter the teaching profession, social and emotional wellness and academic support. Students will have an opportunity to explore the teaching profession. This course will examine various facets of preparing to teach in a diverse, 21st century classroom. The First Year Experience course will also teach first year students how to make informed decisions and successfully function in the university setting.

**TCED 1501  Preparation for Praxis Core Mathematics  1 s.h.**
A course designed to prepare students for professional-level standardized tests. Students will critically analyze the basic components of the Mathematics test for which they are preparing, including requirements, test formats, guideline for answering and scoring, and test-taking strategies, in conjunction with effective pedagogical procedures. One hour lecture, one hour lab.

**TCED 1502  Preparation for Praxis Core Writing  1 s.h.**
A course designed to prepare students for professional-level standardized tests. Students will critically analyze the basic components of the writing test for which they are preparing, including requirements, test formats, guideline for answering and scoring, and test-taking strategies, in conjunction with effective pedagogical procedures. One hour lecture, one hour lab.

**TCED 1503  Preparation for Praxis Core Reading  1 s.h.**
A course designed to prepare students for professional-level standardized tests. Students will critically analyze the basic components of the reading test for which they are preparing, including requirements, test formats, guideline for answering and scoring, and test-taking strategies, in conjunction with effective pedagogical procedures. One hour lecture, one hour lab.

**TCED 1509  Orientation to On-Line Learning  1 s.h.**
This course provides an introduction and orientation to on-line learning, while acquainting students with the platform of BB9, distance education technologies, YSU and TELS. CR/NC.
Coreq.: DE ECE 2629.

**TCED 2600  Becoming an Education Professional  1 s.h.**
The purpose of this course is to explore professionalism and ethics as they are related to the teaching profession: displaying professionalism, making responsible and ethical decisions, developing a professional identity becoming a member of a learning community, and investigating contemporary ethical issues in education. Collegiality, professional behavior, use of social media, interpersonal communication skills, cultural bias, respect/rapport with students and families, will be discussed; ethical and professional dilemmas will be introduced. Field Hours Required.

**TCED 2601  Diversity and Equity in the Classroom  1 s.h.**
This course will examine various facets of preparing to teach in a diverse, 21st century classroom. Course participants will actively engage in understanding theories, research, case studies, and reflective practices that will assist them in developing a firm understanding about culture and its influences on teaching and learning.
Prereq.: Education major.
Coreq.: TCED 2600.

**TCED 2650  LGBTQ Issues in History and Popular Culture  3 s.h.**
Explores the historical and present day representation of LGBT issues and individuals and their portrayal in popular culture.
Cross-listed: WMST 2650.
Gen Ed: Domestic Diversity, Social and Personal Awareness.

**TCED 4800L  Laboratory Experience for Teaching All Learners  0 s.h.**
Laboratory Experience for creating effective classroom environments that are developmentally appropriate, engaging, and integrate the use of technology to positively impact learning. Peer and clinical teaching designed to meet needs of all learners.
Coreq.: ECIS 4801 or ECIS 4802 or ECE 3713 or ECE 3715 or ECE 3780 or ECE 4814 or TEMC 3703 or TEMC 3704 or TEMC 3705 or TEMC 3706 or ECE 4800C or ECE 4800E or ECE 4800M or ECE 4800O or SPED 5835 or SPED 5864 or SPED 5851 or SPED 5868.

**TCED 4830  Undergraduate Capstone Course for Education Majors  3 s.h.**
Senior Seminar which substitutes for student teaching. This course requires a career/field component and research project. Placement is negotiated by the student with approval from course instructor.
Prereq.: Education major and junior standing.

**TCED 5888  Topical Seminar  1-3 s.h.**
Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses.
Prereq.: Admission to upper-division status in COE or admission to the School of Graduate Studies.

**TCED 5888E  Seminar edTPA Review  1-3 s.h.**
Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses.
Prereq.: Admission to upper-division status in COE or admission to the School of Graduate Studies.

**TCED 5888N  Topical Seminar Learning Abroad  1-3 s.h.**
Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses. 1-3 s.h.
Prereq.: Admission to upper-division status in COE or admission to the School of Graduate Studies.

**TCED 5888P  Topical Seminar Science Solar Cookers  1-3 s.h.**
Examination of issues related to the teaching of early childhood education, middle childhood education, special education, multi-age education, family and consumer vocational education, or adolescent/young adult education not covered in depth of other courses.
Prereq.: Admission to upper-division status in COE or admission to the School of Graduate Studies.

**Learning Outcomes**
The learning outcomes for the Department of Teacher Education are to prepare 21st century classroom-ready teacher-candidates with the knowledge, skills, and dispositions to:
- Know and understand the content for which they have instructional responsibility
- Plan and deliver instruction that impacts the learning of all PK-12 students
- Use varied assessments to inform instruction
- Establish and maintain learning environments that ensure learning for all PK-12 students
- Collaborate and communicate with all stakeholders
- Accept the responsibility for professional growth, performance, and involvement as an individual and as a member or a learning community
- Expect that all teacher candidates will learn while modeling respect for PK-12 students' diverse cultures
Bachelor of Science in Education in Integrated Language Arts (7-12) - Adolescent License

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW

- In cooperation with various academic disciplines in the University, the Department of Teacher Education and Leadership Studies offers a four-year AYA Education Program (grades 7-12), Integrated Language Arts, approved by the Ohio Department of Education. The Integrated Language Arts license, Bachelor of Science in Education Degree requires a minimum of 127 semester hours of coursework including a semester of student teaching. Please refer to the four-year plan for additional information. This teaching license requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES

Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Teaching English to Speakers of Other Languages (TESOL) endorsement to increase marketability.

Professional Dispositions

Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING

Students complete over 120 hours of pre-clinical experiences, and additional field experiences, which are included in the following courses that offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3711 Reading Application in Content Areas, Secondary Years
- SED 3706 Principles of Teaching Adolescents

Preclinical Field Experiences

- EDFN 3710 Educational Assessment
- SED 4800E English Methods for Adolescent and Young Adult Learners

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- SED 4842 Supervised Student Teaching: High School
- SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT

Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

ENDORSEMENTS

The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12 Reading Endorsement.
Select one of the following American Literature courses:

- ENGL 2601 Grade of "B" or better.
- ENGL 3700 grade of "B" or better.
- ENGL 4860 Grade of "B" or better.
- ENGL 4861 Grade of "B" or better.
- ENGL 4862 Grade of "B" or better.

Select one of the following World/Multicultural Literature courses:

- ENGL 3711 Reading Application in Content Areas, Secondary Years
- ENGL 3712 American Literature 1
- ENGL 3713 American Literature 2
- ENGL 3741 Advanced Writing for Teachers
- ENGL 4881 Shakespeare and His World
- JOUR 3725 News Reporting 1
- JOUR 4821 Advising Student Media

Select one of the following Oral Communication courses:

- CMST 2655 Communication in Groups and Organizations
- CMST 2666 Interpersonal Communication
- THTR 2670 Oral Interpretation

Professional Education Curriculum

- TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCOE
- PSYC 3709 Psychology of Education
- EDFN 1501 Introduction to Education
- SPED 2630 Individuals with Exceptionalities in Society
- SPED 3708 Education and Society
- SED 3706 Principles of Teaching Adolescents

Preclinical Curriculum

- SED 4800E English Methods for Adolescent and Young Adult Learners
- EDFN 3710 Educational Assessment

Student Teaching Curriculum

- SED 4842 Supervised Student Teaching: High School
- SED 4842A Student Teaching Seminar for Secondary Education

Total Semester Hours 128-130

General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - ___ Completion of 50 SH
  - ___ Minimum 2.75 overall GPA
  - ___ "B" average or better (A-C, B-B) for ENGL 1550 and ENGL 1551.
    - If failure to meet "B" average above must also complete:
      - ___ ENGL 2601 grade of "B" or better.
  - ___ If you receive a "C" or below you will need to retake the course.
    - ___ "B" average or better (B-B, B-A-B, C-A-B) across the following:
      - ___ EDFN 1501 ___ CMST 1545
      - ___ SPED 2630 ___ ENGL 3700

- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)

- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1—to register for Upper Division Courses for Spring
  - February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).
**Student Teaching**

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  - Passage of OAE test(s) and ACTFL tests for foreign language

**Completing a Bachelor of Science in Education with Licensure**

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

**Completing a Bachelor of Science in Education without Licensure**

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

### Year 1

<table>
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<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>YSU 1500 Success Seminar or HONR 1500 or SS 1500 or Intro to Honors or Strong Start Success Seminar</td>
<td>1-2</td>
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<td></td>
<td>ENGL 1550 Writing 1 or ENGL 1549 or English Language 1 with Support</td>
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<td>PSYC 1560 General Psychology</td>
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<td>ENGL 2631 Mythology in Literature</td>
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<td>TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
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<td>EDFN 1501 Introduction to Education</td>
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<td>ENGL 1551 Writing 2</td>
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<td>MATH 2623 Quantitative Reasoning</td>
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<td>SPED 2630 Individuals with Exceptionalities in Society</td>
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<td>Natural Science/Lab GER</td>
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<td>ENGL World Multiculture Literature Elective</td>
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<td>Fall</td>
<td>ENGL 2651 Introduction to Language (satisfies an SPA elective requirement)</td>
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<td>CMST 1545 Communication Foundations</td>
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<td>ENGL 3705 Young Adult Literature</td>
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<td>ENGL 3700 Literary Study</td>
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<td>Media Literacy Elective</td>
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<tr>
<td>Spring</td>
<td>ENGL 3710 British Literature 1</td>
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### Learning Outcomes

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
• Teachers create learning environments that promote high levels of learning and achievement for all students.
• Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
• Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Bachelor of Science in Education in Integrated Mathematics (7-12) - Adolescent License

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW
In cooperation with various academic disciplines in the University, the Department of Teacher Education and Leadership Studies offers a four-year AYA Education Program (grades 7-12), Integrated Mathematics, approved by the Ohio Department of Education. The Integrated Mathematics license, Bachelor of Science in Education Degree requires a minimum of 121 semester hours of coursework including a semester of student teaching. Please refer to the four-year plan for additional information. This teaching license requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete over 120 hours of pre-clinical experiences in ad Field experiences are included in the following courses and offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences
• EDFN 1501 Introduction to Education
• EDFN 3708 Education and Society
• SPED 2650 Individuals with Exceptionalities in Society
• TERG 3711 Reading Application in Content Areas, Secondary Years
• SED 3706 Principles of Teaching Adolescents

Preclinical Field Experiences
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Adolescent/Young Adult preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted (1) one year in advance on TaskStream by September 1st for the preclinical experience. Contact the Education Academic Advisors for minimum preclinical prerequisites.

• EDFN 3710 Educational Assessment
• SED 4800M Mathematics Methods for Adolescent and Young Adult Learners

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

• SED 4842 Supervised Student Teaching: High School
• SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT
Advisement is provided by the academic advisors in Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

027 Mathematics (for teacher candidates with Math concentration)

ENDORSEMENTS
The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12 Reading Endorsement.

COURSE TITLE S.H.
FIRST YEAR REQUIREMENT -STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements
ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3

Mathematics Requirement
MATH 1571 Calculus 1 4

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Some majors prescribe specific GE courses. If a course has been added to the domains, it is required.

Arts and Humanities (6 s.h.) 6
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) 7
Social Science (6 s.h.)
PSYC 1560 General Psychology 3
Social Science elective 3
Social and Personal Awareness (6 s.h.) 6

Subject Area Curriculum
MATH 1572 Calculus 2 4
It is highly recommended that all teacher candidates meet with an academic advisor every semester. Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license. A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

**Upper Division**

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.

  - Upper division requirements:
    - _______ Completion of 50 SH
    - _______ Minimum 2.75 overall GPA

- _______ "B" average or better (A-C, B-B) for ENGL 1550 and ENGL 1551.
  - If failure to meet "B" average above must also complete:
    - _______ ENGL 2601 grade of "B" or better.
  - If you receive a "C" you will need to retake the course.

- _______ "B" average or better (B-B-B, A-B-C) across the following:
  - EDFN 1501
  - CMST 1545
  - SPED 2630
  - MATH 3715

- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)

- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1 — to register for Upper Division Courses for Spring
  - February 1 — to register for Upper Division courses for Summer & Fall

**Admission to Preclinical and Evaluation for Graduation**

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1 — for Fall preclinical (Late applications may not be accepted)
  - February 1 — for Spring preclinical (Late applications may not be accepted)

- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

**Student Teaching**

- Student teaching application must be submitted following instructions found on the portal.

- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1 — to Student Teach the following Spring Semester
  - February 1 — to Student Teach the following Fall Semester

- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a "C"
  - Passage of OAE test(s) and ACTFL tests for foreign language

- _______ “B” average or better (A-C, B-B) for ENGL 1550 and ENGL 1551.
  - If failure to meet "B" average above must also complete:
    - _______ ENGL 2601 grade of "B" or better.
  - If you receive a "C" you will need to retake the course.

- _______ "B" average or better (B-B-B, A-B-C) across the following:
  - EDFN 1501
  - CMST 1545
  - SPED 2630
  - MATH 3715

- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)

- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1 — to register for Upper Division Courses for Spring
  - February 1 — to register for Upper Division courses for Summer & Fall

**Completing a Bachelor of Science in Education with Licensure**

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
  - Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

**Completing a Bachelor of Science in Education without Licensure**

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
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<td>TCED 1500</td>
<td>Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td></td>
<td>MATH 1572</td>
<td>Calculus 2</td>
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<td></td>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
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<tr>
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<td>Arts and Humanities GER</td>
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<td>Social and Personal Awareness GER</td>
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<td>MATH 2673</td>
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<td>CMST 1545</td>
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<td>MATH 3720</td>
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<td>MATH 4830</td>
<td>Foundations of Geometry</td>
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<td>STAT 3743</td>
<td>Probability and Statistics</td>
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<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
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<td>PSYC 3709</td>
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<td></td>
<td>EDFN 3708</td>
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<td></td>
<td>SED 3706</td>
<td>Principles of Teaching Adolescents</td>
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<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
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<td></td>
<td>EDFN 3710</td>
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<td>MATH 4896</td>
<td>Senior Undergraduate Research Project</td>
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<td>SED 4800M</td>
<td>Mathematics Methods for Adolescent and Young Adult Learners</td>
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<td>MATH 3751</td>
<td>Real Analysis 1</td>
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<td>MATH 4832</td>
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<td>SED 4842</td>
<td>Supervised Student Teaching: High School</td>
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<td>SED 4842A</td>
<td>Student Teaching Seminar for Secondary Education</td>
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**Learning Outcomes**

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

**Bachelor of Science in Education in Integrated Sciences (7-12) - Adolescent License, Biology Concentration**

**Program Coordinator**

Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

**Overview**

In cooperation with various academic disciplines in the University, the Department of Teacher Education and Leadership Studies offers a four-year AYA Education Program (grades 7-12), Integrated Sciences/Biology Concentration, approved by the Ohio Department of Education. The AYA Integrated Sciences License, Grades 7-12 (Biology) as the primary concentration, Bachelor of Science in Education degree requires a minimum of 148-151 semester hours of course work. The Integrated Science license qualifies the license holder to teach all areas of science (Biology, Chemistry, Earth/Space, and Physics). This teaching field requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

**Employment Opportunities**

Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students.

**Professional Dispositions**

Teacher candidates are expected to display the following professional dispositions:
• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences
• EDFN 1501 Introduction to Education
• EDFN 3708 Education and Society
• SPED 2630 Individuals with Exceptionalities in Society
• TERG 3711 Reading Application in Content Areas, Secondary Years
• SED 3706 Principles of Teaching Adolescents

Preclinical Field Experience
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Adolescent/Young Adult preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

• EDFN 3710 Educational Assessment
• SED 4800C Science Methods for Adolescent and Young Adult Learners

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

• SED 4842 Supervised Student Teaching: High School
• SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT
Advisement is provided by the Academic Advisors in the Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio's New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

024 Integrated Science (for teacher candidates with Science concentration)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tr>
<td>SED 4800C</td>
<td>Science Methods for Adolescent and Young Adult Learners</td>
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<tr>
<td>SED 4842A</td>
<td>Student Teaching Seminar for Secondary Education</td>
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<th>TITLE</th>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Some majors prescribe specific GE courses. If a course has been added to the domains, it is required.

Arts and Humanities | 6
Natural Sciences (2 courses, 1 lab) | 7
Social Science | 6
Social and Personal Awareness | 6

Subject Area Curriculum

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory</td>
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<tr>
<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory</td>
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</tr>
<tr>
<td>BIOL 3712</td>
<td>Field Botany and Field Botany Laboratory</td>
<td>4</td>
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<tr>
<td>BIOL 3759</td>
<td>Evolution</td>
<td>4</td>
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<tr>
<td>BIOL 3730 &amp; 3730L</td>
<td>Human Physiology and Human Physiology Laboratory</td>
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If primary science concentration is Biology, then take the following:

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<tr>
<th>COURSE</th>
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<tr>
<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory</td>
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<tr>
<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory</td>
<td>4</td>
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<td>CHEM 3719 &amp; 3719L</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory</td>
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<td>PHYS 2608</td>
<td>Sound</td>
<td>3</td>
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<td>PHYS 2610</td>
<td>General Physics 1</td>
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<td>PHYS 2610L</td>
<td>General Physics Laboratory 1</td>
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<td>PHYS 2611</td>
<td>General Physics 2</td>
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<td>PHYS 2611L</td>
<td>General Physics Laboratory 2</td>
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<tr>
<td>GEOL 1505 &amp; 1505L</td>
<td>Physical Geology and Physical Geology Laboratory</td>
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<tr>
<td>GEOL 2602</td>
<td>Introduction to Oceanography</td>
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<td>GEOG 2630</td>
<td>Weather</td>
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<td>ASTR 1504</td>
<td>Descriptive Astronomy</td>
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Select one of the following CHEM electives:

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<tr>
<td>CHEM 2604 &amp; 2604L</td>
<td>Quantitative Analysis and Quantitative Analysis Laboratory</td>
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<tr>
<td>CHEM 3720 &amp; 3720L</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory</td>
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</table>
Upper Division

General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - _____ Completion of 50 SH
  - _____ Minimum 2.75 overall GPA
  - _____ “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  - If failure to meet “B” average above must also complete: _____ ENGL 2601 grade of “B” or better.
  - If you receive a "C" or below you will need to retake the course.
  - _____ “B” average or better (B-B-B, A-B-C) across the following:
    - _____ EDFN 1501
    - _____ CMST 1545
    - _____ SPED 2630
    - _____ GEOL 1505, BIOL 2602, CHEM 1516, PHYS 2610
- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)
- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1—to register for Upper Division Courses for Spring
  - February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  - Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

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<th>Year 1</th>
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<td>Fall</td>
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<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>Writing 1</td>
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<td>MATH 1571</td>
<td>Calculus I</td>
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<tr>
<td>CHEM 1515, 1515L</td>
<td>General Chemistry 1, Laboratory</td>
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Learning Outcomes

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Bachelor of Science in Education in Integrated Sciences (7-12) - Adolescent License, Chemistry Concentration

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW

In cooperation with various academic disciplines in the University, the Department of Teacher Education and Leadership Studies offers a four-year AYA Education Program (grades 7-12), Integrated Sciences/Chemistry Concentration, approved by the Ohio Department of Education. The AYA Integrated Sciences License, Grades 7-12 (Chemistry as the primary concentration), Bachelor of Science in Education degree requires a minimum of 146-149 semester hours of course work. The Integrated Science license qualifies the license holder to teach all areas of science (Biology, Chemistry,
Earth/Space, and Physics). This teaching license requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3711 Reading Application in Content Areas, Secondary Years
- SED 3706 Principles of Teaching Adolescents

Preclinical Field Experience
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Adolescent/Young Adult preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

- EDFN 3710 Educational Assessment
- SED 4800C Science Methods for Adolescent and Young Adult Learners

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- SED 4842 Supervised Student Teaching: High School
- SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT
Advisement is provided by the Academic Advisors in Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

024 Integrated Science (for teacher candidates with Science concentration)

COURSE     TITLE     S.H.
YSU 1500 Success Seminar               1-2
or  SS 1500 Strong Start Success Seminar
or  HONR 1500 Intro to Honors

General Education Requirements

ENGL 1550 Writing 1                     3-4
or  ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2                     3
CMST 1545 Communication Foundations    3
Mathematics requirement
MATH 1571 Calculus 1                    4

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Some majors prescribe specific GE courses. If a course has been added to the domains, it is required.

Arts and Humanities (6 s.h.)           6
Natural Sciences (2 courses, 1 with lab) (7 s.h.)

The required 7 s.h. are met with courses in major.

Social Science (6 s.h.)                3
PSYC 1560 General Psychology           3
Social Science elective                 3
Social and Personal Awareness (6 s.h.) 6

Subject Area Curriculum

MATH 1572 Calculus 2                    4
Chemistry Concentration
All of the following:

CHEM 1515 General Chemistry 1
& 1515L and General Chemistry 1 Laboratory
CHEM 1516 General Chemistry 2
& 1516L and General Chemistry 2 Laboratory
CHEM 2604 Quantitative Analysis
& 2604L and Quantitative Analysis Laboratory
CHEM 3719 Organic Chemistry 1
& 3719L and Organic Chemistry 1 Laboratory
CHEM 3720 Organic Chemistry 2
& 3720L and Organic Chemistry 2 Laboratory
CHEM Elective (select any 3000 or 4000 level course) 3

If primary science concentration is Chemistry, then take the following:

Biol 2601 General Biology: Molecules and Cells
& 2601L and General Biology: Molecules and Cells Laboratory
Biol 2602 General Biology: Organisms and Ecology
& 2602L and General Biology: Organisms and Ecology Laboratory

PHYS 2608 Sound                       3
PHYS 2610 General Physics 1           4
PHYS 2610L General Physics Laboratory 1
PHYS 2611 General Physics 2           4
PHYS 2611L General Physics Laboratory 2
GEOL 1505 Physical Geology
& 1505L and Physical Geology Laboratory
GEOL 2602 Introduction to Oceanography 3
GEOG 2630 Weather                     3
ASTR 1504 Descriptive Astronomy       3

Select 5 s.h. from the following BIOL electives:
It is highly recommended that all teacher candidates meet with an academic advisor every semester.

Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.

A grade of "C" or better is required in all courses. Some courses cannot be taken CP/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

**Upper Division**

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.

- Upper division requirements:
  - Completion of 50 SH
  - Minimum 2.75 overall GPA
  - "B" average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  - If failure to meet "B" average above must also complete:
    - ENGL 2601 grade of "B" or better.

  - If you receive a "C" or below you will need to retake the course.

- "B" average or better (B-B-B, A-B-C) across the following:
  - EDFN 1501
  - CMST 1545

- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)

- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1—to register for Upper Division Courses for Spring
  - February 1—to register for Upper Division courses for Summer & Fall

**Admission to Preclinical and Evaluation for Graduation**

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
  - Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

**Student Teaching**

- Student teaching application must be submitted following instructions found on the portal.

- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester

- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a "C"
  - Passage of OAE test(s) and ACTFL tests for foreign language

**Completing a Bachelor of Science in Education with Licensure**

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros

- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

---

**General Information**

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.

- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIOL 3741 &amp; 3741L</td>
<td>Animal Diversity and Animal Diversity Laboratory</td>
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<tr>
<td>BIOL 3702 &amp; 3702L</td>
<td>Microbiology and Microbiology Laboratory</td>
<td>4</td>
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<tr>
<td>BIOL 3721</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3762 &amp; 3762L</td>
<td>Field Botany and Field Botany Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3759</td>
<td>Evolution</td>
<td>3</td>
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<tr>
<td>BIOL 4890</td>
<td>Molecular Genetics</td>
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<td>BIOL 4890L</td>
<td>Molecular Genetics Laboratory</td>
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<td>BIOL 3730</td>
<td>Human Physiology</td>
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<tr>
<td>BIOL 3730L</td>
<td>Human Physiology Laboratory</td>
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<td>Select a minimum of 3 s.h. from the following PHYS electives:</td>
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<tr>
<td>PHYS 3703</td>
<td>Classical Mechanics and Dynamics</td>
<td>4</td>
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<td>PHYS 3705</td>
<td>Thermodynamics and Classical Statistical Dynamics</td>
<td>3</td>
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<td>PHYS 3705L</td>
<td>Thermodynamics and Classical Statistical Mechanics Laboratory</td>
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<tr>
<td>PHYS 3704</td>
<td>Modern Physics</td>
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<td>PHYS 3704L</td>
<td>Modern Physics Laboratory</td>
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<td>PHYS 3722</td>
<td>Advanced Optics and Light</td>
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<td>PHYS 3722L</td>
<td>Advanced Optics Laboratory</td>
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<td>PHYS 4805</td>
<td>Undergraduate Physics Research</td>
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<tr>
<td>PHYS 2607</td>
<td>Physical Science for Middle and Secondary Education</td>
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<td>Select one of the following E/SS electives:</td>
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<td>ENST 2600</td>
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<td>GEOG 3703</td>
<td>Human Impacts on the Environment</td>
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<tr>
<td>GEOG 3730</td>
<td>Global Climates</td>
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<tr>
<td>GEOL 3720</td>
<td>Field Investigations in Geology</td>
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</table>

**Professional Education Curriculum**

- TCED 1500 | Introduction to Becoming a Teacher First Year Experience Course BCOE | 3 |
- EDFN 1501 | Introduction to Education | 3 |
- PSYC 3709 | Psychology of Education | 3 |
- SPED 2630 | Individuals with Exceptionalities in Society | 3 |
- SED 3706 | Principles of Teaching Adolescents | 2 |
- EDFN 3708 | Education and Society | 3 |
- TERG 3711 | Reading Application in Content Areas, Secondary Years | 3 |
- TEMC 3707 | Science/Technology/Society | 3 |

**Preclinical Curriculum**

- SED 4800C | Science Methods for Adolescent and Young Adult Learners | 3 |
- EDFN 3710 | Educational Assessment | 3 |

**Student Teaching Curriculum**

- SED 4842 | Supervised Student Teaching: High School | 2 |
- SED 4842A | Student Teaching Seminar for Secondary Education | 2 |

Total Semester Hours: 146-149 s.h.
Completing a Bachelor of Science in Education without Licensure

A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

<table>
<thead>
<tr>
<th>Year 1</th>
<th></th>
<th></th>
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<th>Semester Hours</th>
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<td><strong>Fall</strong></td>
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<tr>
<td>YSU 1500</td>
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<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1</td>
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<tr>
<td>MATH 1571 &amp; CHEM 1515 &amp; 1515L &amp; BIOL 2601 &amp; 2601L &amp; TCED 1500</td>
<td>Calculus 1, General Chemistry 1 and General Chemistry 1 Laboratory, General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory, Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
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<table>
<thead>
<tr>
<th><strong>Spring</strong></th>
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<tbody>
<tr>
<td>ENGL 1551</td>
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<tr>
<td>MATH 1572</td>
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<tr>
<td>EDFN 1501</td>
<td></td>
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<tr>
<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory</td>
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<tr>
<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory</td>
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<tr>
<td>PSYC 1560</td>
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| **Semester Hours** | 19-20 |
|-------------------|

Year 2

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<td><strong>Fall</strong></td>
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<td>CHEM 3719 &amp; 3719L &amp; PHYS 2610 &amp; 2610L &amp; CMST 1545</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory, General Physics 1 and General Physics Laboratory 1, Communication Foundations</td>
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<tr>
<td>GEOL 1505 &amp; 1505L &amp; SPED 2630</td>
<td>Physical Geology and Physical Geology Laboratory, Individuals with Exceptionalities in Society</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CHEM 3720 &amp; 3720L</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory</td>
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<tr>
<td>PHYS 2611 &amp; 2611L</td>
<td>General Physics 2 and General Physics Laboratory 2</td>
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<tr>
<td>ASTR 1504</td>
<td>Descriptive Astronomy</td>
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<td>PSYC 3709</td>
<td>Psychology of Education</td>
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<tr>
<td>Arts and Humanities GER</td>
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<tr>
<td>Earth/Space Elective</td>
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| **Semester Hours** | 21 |
|--------------------|

Year 3

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<td>CHEM 2604 &amp; 2604L &amp; GEOL 2602 &amp; GEOG 2630</td>
<td>Quantitative Analysis and Quantitative Analysis Laboratory, Introduction to Oceanography, Weather</td>
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<tr>
<td>Social and Personal Awareness GER</td>
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**Physics Elective**

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<tbody>
<tr>
<td><strong>Spring</strong></td>
<td>Semester Hours</td>
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<tr>
<td>EDFN 3708</td>
<td>Education and Society</td>
</tr>
<tr>
<td>SED 3706</td>
<td>Principles of Teaching Adolescents</td>
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<tr>
<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
</tr>
<tr>
<td>PHYS 2608</td>
<td>Sound</td>
</tr>
<tr>
<td>TEMC 3707</td>
<td>Science/Technology/Society</td>
</tr>
<tr>
<td>Social Science GER</td>
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<tr>
<td>Social and Personal Awareness Elective</td>
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<table>
<thead>
<tr>
<th><strong>Year 4</strong></th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
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<td></td>
</tr>
<tr>
<td>EDFN 3710</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>SED 4800C</td>
<td>Science Methods for Adolescent and Young Adult Learners</td>
<td>3</td>
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<tr>
<td>Arts and Humanities GER</td>
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<tr>
<td>Chemistry Elective</td>
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<tr>
<td>Biology Elective</td>
<td>5</td>
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<table>
<thead>
<tr>
<th><strong>Spring</strong></th>
<th>Semester Hours</th>
<th>17-19</th>
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<tbody>
<tr>
<td>SED 4842</td>
<td>Supervised Student Teaching: High School</td>
<td>10</td>
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<tr>
<td>SED 4842A</td>
<td>Student Teaching Seminar for Secondary Education</td>
<td>2</td>
</tr>
</tbody>
</table>

| **Total Semester Hours** | 147-151 |

**Learning Outcomes**

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers' practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
Bachelor Science in Education in Integrated Sciences (7-12) - Adolescent License, Earth/Space Science Concentration

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW
In cooperation with various academic disciplines in the University, the Department of Teacher Education and Leadership Studies offers a four-year AYA Education Program (grades 7-12), Integrated Sciences/Earth-Space Concentration, approved by the Ohio Department of Education. The AYA Integrated Sciences License, Grades 7-12 (Earth/Space as the primary concentration), Bachelor of Science in Education degree requires a minimum of 147-150 semester hours of coursework. The Integrated Science license qualifies the license holder to teach all areas of science (Biology, Chemistry, Earth/Space, and Physics). This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences
- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3711 Reading Application in Content Areas, Secondary Years
- SED 3706 Principles of Teaching Adolescents

Preclinical Field Experience
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Adolescent/Young Adult preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

- EDFN 3710 Educational Assessment
- SED 4800C Science Methods for Adolescent and Young Adult Learners

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- SED 4842 Supervised Student Teaching: High School
- SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT
Advisement is provided by the Academic Advisors in Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

024 Integrated Science (for teacher candidates with Science concentration)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tr>
<td>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500 or HONR 1500</td>
<td>Strong Start Success Seminar</td>
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General Education Requirements

| ENGL 1550                  | Writing 1                                  | 3-4  |
| or ENGL 1549               | Writing 1 with Support                      |      |
| ENGL 1551                  | Writing 2                                  | 3    |
| CMST 1545                  | Communication Foundations                   | 3    |

Mathematics Requirement

| MATH 1571                  | Calculus 1                                 | 4    |

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Some majors prescribe specific GE courses. If a course has been added to the domains, it is required.

Arts and Humanities (6 s.h.)
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)

This requirement met by courses in major

Social Science (6 s.h.)

| PSYC 1560                  | General Psychology                         | 3    |
| or Social Science elective |                                           | 3    |
| Social and Personal Awareness (6 s.h.) |                                         | 6    |

Subject Area Curriculum

| MATH 1572                  | Calculus 2                                 | 4    |

Earth/Space Science Concentration

All of the following:

| GEOL 1505 & 150SL          | Physical Geology and Physical Geology Laboratory | 4    |
| GEOL 2605                  | Historical Geology                          | 4    |
| GEOL 2602                  | Introduction to Oceanography                 | 3    |
| GEOG 2630                  | Weather                                     | 3    |
| ASTR 1504                  | Descriptive Astronomy                        | 3    |
| ASTR 2609                  | Moon and Planets                             | 3    |

One of the following E/SS electives:

| GEOL 3720                  | Field Investigations in Geology             | 1-4  |
ENST 2600 Foundations of Environmental Studies 3

One of the following E/SS Electives:

GEOG 3703 Human Impacts on the Environment 3
GEOG 3730 Global Climates 3
GEOG 3737 Soils and Land Use 3

If primary science concentration is Earth/Space Science, then take the following:

BIOL 2601 General Biology: Molecules and Cells 4
& 2601L General Biology: Molecules and Cells Laboratory

BIOL 2602 General Biology: Organisms and Ecology 4
& 2602L General Biology: Organisms and Ecology Laboratory

CHEM 1515 General Chemistry 1 4
& 1515L General Chemistry 1 Laboratory

CHEM 1516 General Chemistry 2 4
& 1516L General Chemistry 2 Laboratory

CHEM 3719 Organic Chemistry 1 4
& 3719L Organic Chemistry 1 Laboratory

PHYS 2608 Sound 3

PHYS 2610 General Physics 1 4

PHYS 2610L General Physics Laboratory 1 1

PHYS 2611 General Physics 2 4

PHYS 2611L General Physics laboratory 2 1

Select 5 s.h. from the following BIOL electives:

BIOL 3741 Animal Diversity 4
& 3741L Animal Diversity Laboratory

BIOL 3702 Microbiology 4
& 3702L Microbiology Laboratory

BIOL 3721 Genetics 3

BIOL 3762 Field Botany 4
& 3762L Field Botany Laboratory

BIOL 3759 Evolution 3

BIOL 4890 Molecular Genetics 3

BIOL 4890L Molecular Genetics Laboratory 1

BIOL 3730 Human Physiology 4

BIOL 3730L Human Physiology Laboratory 1

Select one of the following CHEM electives:

CHEM 2604 Quantitative Analysis 5
& 2604L Quantitative Analysis Laboratory

CHEM 3720 Organic Chemistry 2 4
& 3720L Organic Chemistry 2 Laboratory

CHEM 3785 Biochemistry 1 3

Select a minimum of 3 s.h. from the following PHYS electives:

PHYS 3703 Classical Mechanics and Dynamics 4

PHYS 3705 Thermodynamics and Classical Statistical Dynamics 3

PHYS 3705L Thermodynamics and Classical Statistical Mechanics Laboratory 1

PHYS 3704 Modern Physics 4

PHYS 3704L Modern Physics Laboratory 1

PHYS 3722 Advanced Optics and Light 3

PHYS 3722L Advanced Optics Laboratory 1

PHYS 4805 Undergraduate Physics Research 3

PHYS 2607 Physical Science for Middle and Secondary Education 4

Professional Education Curriculum

TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCONE 3

EDFN 1501 Introduction to Education 3

PSYC 3709 Psychology of Education 3

SPED 2630 Individuals with Exceptionalities in Society 3

SED 3706 Principles of Teaching Adolescents 2 3

EDFN 3708 Education and Society 3

TERG 3711 Reading Application in Content Areas, Secondary Years 2 3

TEMC 3707 Science/Technology/Society 12 3

Preclinical Curriculum

EDFN 3710 Educational Assessment 3

SED 4800C Science Methods for Adolescent and Young Adult Learners 2 3

Student Teaching Curriculum

SED 4842 Supervised Student Teaching: High School 2 10

SED 4842A Student Teaching Seminar for Secondary Education 2 2

Total Semester Hours for the Degree: 147-150 s.h.

1 Prerequisites for preclinical curriculum.
2 Upper division course.

General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of “C” or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - _____ Completion of 50 SH
  - _____ Minimum 2.75 overall GPA
  - _____ “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  - If failure to meet “B” average above must also complete:
    - _____ ENGL 2601 grade of “B” or better.
  - If you receive a “C” or below you will need to retake the course.
  - _____ “B” average or better (B-B-B, A-B-C) across the following:
    - _____ EDFN 1501
    - _____ CMST 1545
    - _____ SPED 2630
    - _____ GEOL 1505, BIOL 2602, CHEM 1516, PHYS 2610

- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)
  - Deadlines for submission for upper division status (late applications may not be accepted):
    - September 1 —to register for Upper Division Courses for Spring
    - February 1 —to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
  - Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).
## Student Teaching
- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a "C"
  - Passage of OAE test(s) and ACTFL tests for foreign language

## Completing a Bachelor of Science in Education with Licensure
- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

## Completing a Bachelor of Science in Education without Licensure
- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

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<th>Year 1</th>
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<td>CHEM 3719 &amp; 3719L</td>
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<td>Science Methods for Adolescent and Young Adult Learners</td>
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<td>Social Science GER</td>
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**Total Semester Hours**: 148-152

## Learning Outcomes
The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers' practice.
Teachers understand student learning and development and respect the diversity of the students they teach.

Teachers know and understand the content area for which they have instructional responsibility.

Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.

Teachers plan and deliver effective instruction that advances the learning of each individual student.

Teachers create learning environments that promote high levels of learning and achievement for all students.

Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Bachelor of Science in Education in Integrated Sciences (7-12) - Adolescent License, Physics Concentration

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW
In cooperation with various academic disciplines in the University, the Department of Teacher Education and Leadership Studies offers a four-year AYA Education Program (grades 7-12), Integrated Sciences/Physics Concentration, approved by the Ohio Department of Education. The AYA Integrated Sciences License, Grades 7-12 (Physics as the primary concentration), Bachelor of Science in Education degree requires a minimum of 144-147 semester hours of course work. The Integrated Science license qualifies the license holder to teach all areas of science (Biology, Chemistry, Earth/Space, and Physics). This teaching field requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

• Teachers understand student learning and development and respect the diversity of the students they teach.
• Teachers know and understand the content area for which they have instructional responsibility.
• Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
• Teachers plan and deliver effective instruction that advances the learning of each individual student.
• Teachers create learning environments that promote high levels of learning and achievement for all students.
• Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Preclinical Field Experience
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Adolescent/Young Adult preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

• EDFN 1501 Introduction to Education
• EDFN 3708 Education and Society
• SPED 2630 Individuals with Exceptionalities in Society
• TERG 3711 Reading Application in Content Areas, Secondary Years
• SED 3706 Principles of Teaching Adolescents

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

• SED 4842 Supervised Student Teaching: High School
• SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT
Advisement is provided by the academic advisors in Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

024 Integrated Science (for teacher candidates with Science concentration)

<table>
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<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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Mathematics Requirement

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</thead>
<tbody>
<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Some majors prescribe specific GE courses. If a course has been added to the domains, it is required.

Arts and Humanities (6 s.h.)

Natural Sciences (2 courses, 1 with lab) (7 s.h.)

The required 7 s.h. are met with courses in major.

Social Science (6 s.h.)

YSU 2021-2022 Undergraduate Catalog 153
PSYC 1560  General Psychology  3
Social Science elective  3
Social and Personal Awareness (6 s.h.)  6

Subject Area Curriculum
MATH 1572  Calculus 2  4

Physics Concentration
All of the following:
PHYS 2608  Sound  3
PHYS 2610  General Physics 1  4
PHYS 2610L  General Physics Laboratory 1  1
PHYS 2611  General Physics 2  4
PHYS 2611L  General Physics Laboratory 2  1
Select 11 s.h. from the following:
PHYS 3703  Classical Mechanics and Dynamics  4
PHYS 3705  Thermodynamics and Classical Statistical Dynamics  3
PHYS 3705L  Thermodynamics and Classical Statistical Mechanics Laboratory  1
PHYS 3704  Modern Physics  4
PHYS 3704L  Modern Physics Laboratory  1
PHYS 3722  Advanced Optics and Light  3
PHYS 3722L  Advanced Optics Laboratory  1
PHYS 4805  Undergraduate Physics Research  3
PHYS 2607  Physical Science for Middle and Secondary Education  4

If primary science concentration is Physics, then take the following:
BIOL 2601  General Biology: Molecules and Cells & General Biology: Molecules and Cells Laboratory  4
BIOL 2602  General Biology: Organisms and Ecology & General Biology: Organisms and Ecology Laboratory  4
CHEM 1515  General Chemistry 1 & 1515L  4
CHEM 1516  General Chemistry 2 & 1516L  4
CHEM 3719  Organic Chemistry 1 & 3719L  4
GEOL 1505  Physical Geology & 1505L  4
GEOL 2602  Introduction to Oceanography  3
GEOG 2630  Weather  3
ASTR 1504  Descriptive Astronomy  3
Select 5 s.h. from the following BIOL electives:
BIOL 3741  Animal Diversity  4
BIOL 3702  Microbiology  4
BIOL 3721  Genetics  3
BIOL 3762  Field Botany  4
BIOL 3759  Evolution  3
BIOL 4890  Molecular Genetics  3
BIOL 4890L  Molecular Genetics Laboratory  1
BIOL 3730  Human Physiology  4
Select one of the following CHEM electives:
CHEM 2604  Quantitative Analysis  5
CHEM 3720  Organic Chemistry 2  4
CHEM 3785  Biochemistry 1  3
Select one of the following E/SS electives:
ENST 2600  Foundations of Environmental Studies  3
GEOG 3703  Human Impacts on the Environment  3
GEOG 3730  Global Climates  3
GEOL 3720  Field Investigations in Geology  1-4

Professional Education Curriculum
TCED 1500  Introduction to Becoming a Teacher First Year Experience Course BCOE  3
EDFN 1501  Introduction to Education  3
PSYC 3709  Psychology of Education  3
SPED 2630  Individuals with Exceptionalities in Society  1
SED 3706  Principles of Teaching Adolescents  2
EDFN 3708  Education and Society  3
TERG 3711  Reading Application in Content Areas, Secondary Years  2
TEMC 3707  Science/Technology/Society  1  2

Preclinical Curriculum
EDFN 3710  Educational Assessment  3
SED 4800C  Science Methods for Adolescent and Young Adult Learners  3

Student Teaching Curriculum
SED 4832  Supervised Student Teaching: High School  10
SED 4842A  Student Teaching Seminar for Secondary Education  2

Total Semester Hours: 144-147 s.h.

1 Prerequisites for perclinical curriculum.
2 Upper division course.

General Information
- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of “C” or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

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- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - Completion of 50 SH
  - Minimum 2.75 overall GPA
  - “B” average or better (A-C, B-B) for ENGL 1550 and ENGL 1551.
  - If failure to meet “B” average above must also complete:
    - ENGL 2601 grade of “B” or better.
  - If you receive a “C” or below you will need to retake the course.
  - “B” average or better (B-B, A-B-C) across the following:
  - EDFN 1501  CMST 1545
  - SPED 2630  GEO 1505, BIOL 2602, CHEM 1516, PHYS 2610
- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)
- Deadlines for submission for upper division status (late applications may not be accepted):
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Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1 — for Fall preclinical (Late applications may not be accepted)
  - February 1 — for Spring preclinical (Late applications may not be accepted)
- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester.
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    - February 1 — to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  - Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

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<td>YSU 1500</td>
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<td>ASTR 1504</td>
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Year 3

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Year 4

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</table>

| Total Semester Hours | 145-149 |
Bachelor of Science in Education in Integrated Social Studies (7-12) - Adolescent License

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW
In cooperation with various academic disciplines in the University, the Department of Teacher Education offers a four-year AYA Education Program (grades 7-12), Integrated Social Studies, approved by the Ohio Department of Education. The AYA Integrated Social Studies License, Grades 7-12, Bachelor of Science in Education degree requires a minimum of 122 semester hours of course work. This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Adolescent/Young Adult Program will be qualified to teach in the 7-12 classroom. Additional opportunities may be available in the private sector to tutor students. Graduates wanting to teach College Credit Plus courses should consider a Master of Science in Education Content Area Concentration degree.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:
- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
- Students complete over 120 hours of pre-clinical experiences. Field experiences are included in the following courses and offer opportunities

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<tr>
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<tr>
<td>Fall</td>
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<td>ENGL 1550</td>
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<td>PHYS 2610</td>
<td>General Physics 1</td>
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<tr>
<td>EDFN 3708</td>
<td>Education and Society</td>
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<tr>
<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
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<td>Fall</td>
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<td>Spring</td>
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<td>Total Semester Hours</td>
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to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3711 Reading Application in Content Areas, Secondary Years
- SED 3706 Principles of Teaching Adolescents

Preclinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Adolescent/Young Adult preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted onto TaskStream (1) one year in advance by September 1st for the preclinical experience. Contact the Beeghly Hall Academic Advisors for minimum preclinical prerequisites.

- EDFN 3710 Educational Assessment
- SED 4800S Social Studies Methods for Adolescent and Young Adult Learners

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- SED 4842 Supervised Student Teaching: High School
- SED 4842A Student Teaching Seminar for Secondary Education

ADVICEMENT

Advisement is provided by the Academic Advisors in Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

025 Integrated Social Studies (for teacher candidates with Social Studies concentration)

ENDORSEMENTS

The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12 Reading Endorsement.

COURSE | TITLE | S.H.
--- | --- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 3
or HONR 1500 | Intro to Honors | 3

General Education Requirements

ENGL 1550 | Writing 1 | 3
or ENGL 1549 | Writing 1 with Support | 3

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<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<td>MATH 2630</td>
<td>Weather Lab</td>
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<td>Principles 1: Macroeconomics</td>
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<tr>
<td>ECON 2631</td>
<td>Introductory Macroeconomics for Education Majors</td>
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<td>GEOG 1503</td>
<td>Physical Geography</td>
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<tr>
<td>GEOG 2630</td>
<td>Weather</td>
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<td>GEOG 2640</td>
<td>Human Geography</td>
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<td>GEOG 3717</td>
<td>Geography of Europe</td>
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<tr>
<td>HIST 1511</td>
<td>World Civilization to 1500</td>
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<td>HIST 1512</td>
<td>World Civilization from 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History 1</td>
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</tr>
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<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
<td>3</td>
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<tr>
<td>HIST 3702</td>
<td>Early America</td>
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<td>HIST 3703</td>
<td>Nineteenth Century America</td>
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<td>HIST 3712</td>
<td>United States in Crisis: 1900-1945</td>
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<td>HIST 3748</td>
<td>History of Ohio</td>
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<td>HIST 3764</td>
<td>Modern Europe, 1715 to the Present</td>
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<tr>
<td>HIST 3795</td>
<td>The World since 1945</td>
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<td>POL 1560</td>
<td>American Government</td>
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<td>POL 2695</td>
<td>Model United Nations</td>
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<td>Individuals with Exceptionalities in Society</td>
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<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
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<td>SED 3706</td>
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<td>EDFN 3708</td>
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<td>Student Teaching Seminar for Secondary Education</td>
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</table>

**Total Semester Hours: 122 s.h.**

1 Prerequisite for preclinical curriculum
2 Upper division course.
General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - 158 Semester Hours
  - Minimum 2.75 overall GPA
  - "B" average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
    - If failure to meet "B" average above must also complete:
      - ENGL 2601 grade of "B" or better.
    - If you receive a "C" or below you will need to retake the course.
  - "B" average or better (B-B-B, A-B-C) across the following:
    - EDFN 1501
    - CMST 1545
    - SPED 2630
    - HIST 2605 or HIST 2606
- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCIS & FBI clearances
  - Writing prompt (Blackboard)
- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1—to register for Upper Division Courses for Spring
  - February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a "C"
  - Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

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<th>Fall</th>
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<tbody>
<tr>
<td>YSU 1500</td>
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<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<tr>
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Semester Hours 19-20

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Year 2

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<td>ECON 2631</td>
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<td>HIST 3764</td>
<td>Modern Europe, 1715 to the Present</td>
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<tr>
<td>HIST 3703</td>
<td>Nineteenth Century America</td>
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Year 3

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<tr>
<th>Fall</th>
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<tr>
<td>HIST 3712</td>
<td>United States in Crisis: 1900-1945</td>
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<tr>
<td>GEOG 3717</td>
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<td>Early America</td>
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<td>Physical Geography</td>
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<td>Introduction to Sociology</td>
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<td>History of Ohio</td>
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Semester Hours 18
Specialist Education (P-5) Bachelor of Science in Education

Overview
The Department of Teacher Education and Leadership Studies offers a four-year Primary/Primary Intervention Specialist Program approved by the Ohio Department of Higher Education. The Primary/Primary Intervention Specialist (P-5) Bachelor of Science in Education degree requires a minimum of 123 semester hours of course work. This program requires the passage of multiple Ohio Assessment for Educator exams to become eligible to student teach. Contact the Department of Teacher Education and Leadership Studies or the Advisement Office for additional information.

Employment Opportunities
Graduates of the new Primary/Primary IS dual license will be able to work in the following areas: in schools as the classroom teacher of record, inclusion classroom teacher of record, or P-5 special education classroom of record. Graduates will also be trained to work with children who are currently learning the English language. Other employment opportunities include: working with regional Educational Service Providers, providing individual services to children within their homes, working with regionally based programs, medical providers, or private education companies.

Field Experiences and Student Teaching
Students complete over 300 hours of pre-clinical experiences in addition to student teaching. Field experiences are included in the following courses and offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences
- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- ELIS 2601 Development, Learning and the Arts
- ELIS 3700 Building Pro-Social Learning Environments P-5
- HEPE 2624 Physical Education for Children in Early Childhood Settings
- SPED 2630 Individuals with Exceptionalities in Society
- TCED 2600 Becoming an Education Professional
- TERG 2601 Reading Application in Content Area Early Years
- TERG 3701 Phonics in Reading Instruction
- TERG 3702 Developmental Reading Instruction
- TERG 3703 Assessment and Instruction in Reading

Preclinical Field Experiences
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Early Childhood preclinical experience is scheduled during the fall and spring semesters. Applications for the preclinical experience must be submitted (1) one year in advance on TaskStream, by September 1st for fall preclinical, and February 1st for spring preclinical. Contact the Education Academic Advisors for additional information.

Bachelor of Science in Education in Primary/Primary Intervention Specialist Education (P-5)

Program Coordinator
Dr. Crystal Ratican, Program Coordinator
Beeghly Hall 2422

Looking Outcomes
The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

Semester Hours

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<th>Course</th>
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<tr>
<td>SED 3706 Principles of Teaching Adolescents</td>
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<td>TERG 3711 Reading Application in Content Areas, Secondary Years</td>
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<td>HIST 3795 The World since 1945</td>
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<td>GEOG 2630 Weather</td>
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Semester Hours 16

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<td>EDFN 3710 Educational Assessment</td>
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<td>SED 4800S Social Studies Methods for Adolescent and Young Adult Learners</td>
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<td>POL 2695 Model United Nations</td>
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Semester Hours 13

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<td>SED 4842 Supervised Student Teaching: High School</td>
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<td>SED 4842A Student Teaching Seminar for Secondary Education</td>
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Semester Hours 12

Total Semester Hours 123-124

Contact Information
(330) 941-3245
cratican@ysu.edu

YSU 2021-2022 Undergraduate Catalog 159
• ELIS 4803 Modern Classroom Assessment
• ELIS 4804 Differentiating for Learning in the 3-5 Classroom

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.
• ELIS 4841 Supervised Student Teaching Primary/Primary Intervention Specialist
• ELIS 4842 Student Teaching Seminar Primary/Primary Intervention Specialist

Advisement
Advisement is provided by the academic advisors in Beeghly Hall. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all early childhood majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio's New Learning Standards. Teacher candidates must pass these exams prior to student teaching:
• 018 & 019 Elementary Subtest I&II
• 090 Foundations of Reading
• 013 Early Childhood Special Education

Outcomes
The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>MATH 2662</td>
<td>Mathematics for Elementary Teachers 2</td>
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<td>ART 2648</td>
<td>Experience Art: Social and Behavioral Perspectives</td>
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<td>MUHL 2621</td>
<td>Music Literature and Appreciation</td>
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<td>or MUHL 2622</td>
<td>Popular Music in America</td>
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<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
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<tr>
<td>ELIS 4801</td>
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<td>Teaching Math and Science in Grades 3-5</td>
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<tr>
<td>or ELIS 4803</td>
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<tr>
<td>or ELIS 4804</td>
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<td>PSYC 3709</td>
<td>Psychology of Education</td>
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Reading Course Requirements
TERG 2601 Reading Application in Content Area Early Years | 3 |
TERG 3701 Phonics in Reading Instruction | 3 |
TERG 3702 Developmental Reading Instruction | 3 |
TERG 3703 Assessment and Instruction in Reading | 3 |

Student Teaching Curriculum
ELIS 4841 Supervised Student Teaching Primary/Primary Intervention Specialist | 10 |
General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.

Upper division requirements:
- _____ Completion of 50 SH
- _____ Minimum 2.75 overall GPA
- _____ "B" average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
- _____ If failure to meet "B" average above must also complete:
  - _____ ENGL 2601 grade of "B" or better.
  - _____ If you receive a "C" or below you will need to retake the course.
- _____ "B" average or better (B-B-B, A-B-C) across the following:
  - EDFN 1501
  - CMST 1545
  - SPED 2630
  - ELIS 2601

After completing a minimum of 50 SH, submit the following:
- Upper Division application (Portal)
- Good Moral Character Statement
- Copy of BCI & FBI clearances
- Writing prompt (Blackboard)

Deadlines for submission for upper division status (late applications may not be accepted):
- September 1—to register for Upper Division Courses for Spring
- February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
- September 1—for Fall preclinical (Late applications may not be accepted)
- February 1—for Spring preclinical (Late applications may not be accepted)
- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester

Prerequisites:
- BCOE Upper Division status
- Overall 2.75 GPA
- Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a "C"
- Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

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<td>MATH 2661</td>
<td>Mathematics for Elementary Teachers 1</td>
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<td>TCED 1500</td>
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| Semester Hours | 16-17 |

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<td>TCED 2600</td>
<td>Becoming an Education Professional</td>
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<td>ENGL 1551</td>
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<td>MATH 2662</td>
<td>Mathematics for Elementary Teachers 2</td>
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<tr>
<td>TERG 2601</td>
<td>Reading Application in Content Area Early Years</td>
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| Semester Hours | 17 |

Year 2

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<td>ENGL 3703</td>
<td>Literature for Young Children</td>
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<tr>
<td>PSYC 3755</td>
<td>Child Development</td>
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<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
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<td>SPED 2630L</td>
<td>Individuals with Exceptionalities in Society Laboratory Experience</td>
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<tr>
<td>TERG 3701</td>
<td>Phonics in Reading Instruction</td>
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<td>Natural Science elective</td>
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| Semester Hours | 18 |

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<tr>
<td>ELIS 2601</td>
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<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
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<td>MUHL 2621</td>
<td>Music Literature and Appreciation</td>
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<td>OR MUHL 2622</td>
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<td>TERG 3702</td>
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<td>Natural Science elective</td>
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| Semester Hours | 16 |
Year 3

Fall
EDFN 3708 Education and Society 3
ELIS 3700 Building Pro-Social Learning Environments P-5 3
HEPE 2624 Physical Education for Children in Early Childhood Settings 3
PSYC 3709 Psychology of Education 3
TERG 3703 Assessment and Instruction in Reading 3

Semester Hours 15

Spring
ELIS 3701 Teaching Language Arts through Life Studies in the P-2 Classroom 3
ELIS 3702 Teaching Math and Science in Grades P-2 4
ELIS 3703 Assessing Learning in P-2 Classrooms 2
ELIS 3704 Differentiating for Learning in the P-2 Classroom 3

Semester Hours 12

Year 4

Fall
ELIS 4800 Teaching Language Arts in Grades 3-5 3
ELIS 4801 Teaching Social Studies in Grades 3-5 3
ELIS 4802 Teaching Math and Science in Grades 3-5 4
ELIS 4803 Modern Classroom Assessment 3
ELIS 4804 Differentiating for Learning in the 3-5 Classroom 3

Semester Hours 16

Spring
ELIS 4841 Supervised Student Teaching Primary/Primary Intervention Specialist 10
ELIS 4842 Student Teaching Seminar in Primary/Primary Intervention Specialists Education 2
TCED 5888E Seminar edTPA Review 1

Semester Hours 13

Total Semester Hours 123-124

Associate of Applied Science in Early Childhood Associate Pre-K

Program Coordinator
Patrick O’Leary (330) 941-3343 pmoleary@ysu.edu

Overview
This associate degree leads to Associate Licensure in Pre-Kindergarten Education. Graduates are qualified to teach in or manage licensed daycare and preschool programs, and they are eligible for Associate Pre-kindergarten Teacher Licensure after passing the Pre-k Praxis examination. Most of the coursework can be applied toward a bachelor’s degree for Family and Consumer Science Instructor or Early Childhood Education. Within the framework of their required courses, students complete 300 hours of clinical/field work. This program normally requires four semesters of study averaging 15-18 hours per semester.

COURSE TITLE S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements

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<td>Writing 1 with Support</td>
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<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>MATH 2623</td>
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<td>PSYC 1560</td>
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Major Requirements

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<td>HMEC 1550</td>
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<td>CHFM 1514</td>
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<tr>
<td>CHFM 1530</td>
<td>Infants and Toddlers: Development and Care</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
<td>3</td>
</tr>
<tr>
<td>CHFM 2633</td>
<td>Early Childhood: Integrating Development and Education</td>
<td>3</td>
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<tr>
<td>CHFM 2650</td>
<td>Introduction to Assessment of Young Children</td>
<td>3</td>
</tr>
<tr>
<td>CHFM 2664</td>
<td>Managing Classroom Behavior and Staff Relationships in Early Childhood Settings</td>
<td>3</td>
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<tr>
<td>CHFM 2675</td>
<td>Integrated Curriculum for Prekindergarten</td>
<td>3</td>
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<tr>
<td>MUED 3722</td>
<td>Music in Early Childhood</td>
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<tr>
<td>CHFM 3733L</td>
<td>Practicum Preprimary Settings</td>
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<tr>
<td>ART 3737</td>
<td>Pre-K-4, Visual Arts Education</td>
<td>3</td>
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<tr>
<td>CHFM 3750</td>
<td>Parent and Professional Relationships</td>
<td>3</td>
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<td>PSYC 3755</td>
<td>Child Development</td>
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<tr>
<td>CHFM 3770</td>
<td>Wellness During the Early Childhood Years</td>
<td>3</td>
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<tr>
<td>CHFM 3790</td>
<td>Directed Practice in PreK Education</td>
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<tr>
<td>CHFM 3790S</td>
<td>Directed Practice Seminar</td>
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</table>

Total Semester Hours 65-67

Year 1

Fall
YSU 1500 Success Seminar 1
CHFM 1514 Introduction to Early Childhood Education 3
ENGL 1550 Writing 1 3
HMEC 1550 Human Ecology Professions 1
PSYC 1560 General Psychology 3
ART 3737 Pre-K-4, Visual Arts Education 1 3

Semester Hours 14

Summer
CHFM 1530 Infants and Toddlers: Development and Care 3
ENGL 1551 Writing 2 3
CHFM 2633 Early Childhood: Integrating Development and Education 3
PSYC 3755 Child Development 3
CHFM 3770 Wellness During the Early Childhood Years 3

Semester Hours 15

Year 2

Fall
SPED 2631 Intervention Strategies with Special Needs Children in Early Childhood 1 3
CHFM 2650 Introduction to Assessment of Young Children 3
CHFM 2675 Integrated Curriculum for Prekindergarten 3
CHFM 3733L Practicum Preprimary Settings 3

Semester Hours 6
Teacher candidates are expected to display the following professional dispositions:

- Design and implement developmentally appropriate lessons.
- Involve families in learning.
- Assess a child’s development in five developmental domains.
- Recognize and use ethical guidelines and professional standards related to early childhood practice.

Bachelor of Science in Education in Italian (PK-12) - Multi-Age License

Multi-Age Education (PK-12)

Italian

* Note: Admission to this undergraduate program has been suspended. New students to the program are no longer being accepted. *

Program Coordinator
Dr. Jennifer Behney, Program Coordinator

OVERVIEW

The program in Italian Education prepares students to become a teacher of foreign language at the high school, middle school, and elementary school levels in the state of Ohio. Graduates are fully licensed to teach Italian in Ohio (Multi-age P-12 Licensure) and are fully prepared in their knowledge of the target language, of best practices and standards in pedagogy, and in specific Second Language Acquisition (SLA) theories and foreign language education techniques. Students enter student teaching in the last semester of study with a level of Advanced Low in both oral and written communication in the target language, as measured by the Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT) and as required by the American Council on the Teaching of Foreign Languages (ACTFL).

The Multi-Age Italian License, Grades P-12, Bachelor of Science in Education degree requires a minimum of 120 semester hours of course work. This teaching field requires passing of the Ohio Assessments for Educators in order to be eligible to student teach.

Professional Dispositions

Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING

Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2650 Individuals with Exceptionalities in Society
- TERG 3711 Reading Application in Content Areas, Secondary Years
- SED 3706 Principles of Teaching Adolescents

Pre-clinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. This preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance (by September 1).

- FNLG 4801 Methods of Foreign Language Teaching
- EDFN 3710 Educational Assessment Educational Assessment

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 34 during this experience.

- SED 4827 Supervised Student Teaching: Language (K-12)
- SED 4842A Student Teaching Seminar for Secondary Education

REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass this exam prior to student teaching.

ACTFL Oral Proficiency Interview, Writing Proficiency Test

These exams are administered by Language Testing International/ACTFL.

ADVICEMENT

Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all foreign language majors must complete a preclinical experience.

COURSE | TITLE | S.H.
--- | --- | ---
FIRST YEAR REQUIREMENT -STUDENT SUCCESS
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar
or HONR 1500 | Intro to Honors
General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
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<td></td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 2619</td>
<td>Introduction to Logic</td>
<td></td>
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<tr>
<td>or STAT 2601</td>
<td>Introductory Statistics</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>Social Science (1 course)</td>
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<tr>
<td>Arts and Humanities (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab)</td>
<td>6-7</td>
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<tr>
<td>Social and Personal Awareness (2 courses)</td>
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Subject Area Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 2651</td>
<td>Introduction to Language</td>
<td>3</td>
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<tr>
<td>ITAL 1506</td>
<td>Elementary Italian 2 (A student who starts with</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ITAL 2607 or ITAL 2608, may take ITAL 1506 Credit by</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Examination)</td>
<td></td>
</tr>
<tr>
<td>ITAL 2607</td>
<td>Intermediate Italian 1</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 2608</td>
<td>Intermediate Italian 2</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 3726</td>
<td>Italian Phonetics and Phonology</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 3736</td>
<td>Italian Linguistics</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 4880</td>
<td>Italian Conversation and Composition Capstone</td>
<td>4</td>
</tr>
<tr>
<td>FNLG 4899</td>
<td>Professional Development for Teachers</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 4851</td>
<td>Language Acquisition</td>
<td>3</td>
</tr>
</tbody>
</table>

Four of the following courses: 16

- ITAL 3735 Italian Civilization and Culture
- ITAL 3740 Survey of Italian Literature 1
- ITAL 3741 Survey of Italian Literature 2
- ITAL 3750 Contemporary Italian Literature
- ITAL 3755 Advanced Italian Conversation and Composition
- ITAL 3760 Literary Representations of 19th Century Italy
- ITAL 3770 Special Topics in Italian
- ITAL 3799 Study Abroad in Italian

Preclinical Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>FNLG 4801</td>
<td>Methods of Foreign Language Teaching</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 3710</td>
<td>Educational Assessment</td>
<td>3</td>
</tr>
<tr>
<td>Student Teaching Curriculum</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SED 4827</td>
<td>Supervised Student Teaching: Language (K-12)</td>
<td>10</td>
</tr>
<tr>
<td>SED 4842A</td>
<td>Student Teaching Seminar for Secondary Education</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Hours 123-126

---

1. Prerequisites for preclinical curriculum

2. Upper Division Courses

---

General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - Completion of 50 SH
  - Minimum 2.75 overall GPA
  - "B" average or better (A-C, B-B) for ENGL 1550 and ENGL 1551.
  - If failure to meet "B" above average must also complete:
    - ENGL 2601 grade of "B" or better.
  - If you receive a "C" or below you will need to retake the course.

After completing a minimum of 50 SH, submit the following:

- Upper Division application (Portal)
- Good Moral Character Statement
- Copy of BCI & FBI clearances
- Writing prompt (Blackboard)

Deadlines for submission for upper division status (late applications may not be accepted):

- September 1— to register for Upper Division Courses for Spring
- February 1— to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1— for Fall preclinical (Late applications may not be accepted)
  - February 1— for Spring preclinical (Late applications may not be accepted)

- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1— to Student Teach the following Spring Semester
  - February 1— to Student Teach the following Fall Semester

Prerequisites:

- BCOE Upper Division status
- Overall 2.75 GPA
- Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a "C"
- Passage of OAE test(s) and ACTFL tests for foreign language
Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Hours</th>
</tr>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>ITAL 1506</td>
<td>Elementary Italian 2</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
</tr>
<tr>
<td>or PHIL 2619</td>
<td>Introduction to Logic</td>
</tr>
<tr>
<td>STAT 2601</td>
<td>Introductory Statistics</td>
</tr>
<tr>
<td>TCED 1500</td>
<td>Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
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Year 2

<table>
<thead>
<tr>
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<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
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<tr>
<td>ITAL 2607</td>
<td>Intermediate Italian 1</td>
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<td>Natural Science GER</td>
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<td>Social and Personal Awareness GER</td>
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Year 3

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<td>ITAL 37XX</td>
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<tr>
<td>PSYC 3709</td>
<td>Psychology of Education</td>
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<tr>
<td>EDFN 3708</td>
<td>Education and Society</td>
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<tr>
<td>ENGL 4851</td>
<td>Language Acquisition</td>
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Year 4

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<tbody>
<tr>
<td>ITAL 37XX</td>
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<tr>
<td>SED 3706</td>
<td>Principles of Teaching Adolescents</td>
</tr>
<tr>
<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
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<tr>
<td>FNLG 4899</td>
<td>Professional Development for Teachers</td>
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| Semester Hours | 14 |

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<tr>
<th>Spring</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>SED 4827</td>
<td>Supervised Student Teaching: Language (K-12)</td>
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<tr>
<td>SED 4842A</td>
<td>Student Teaching Seminar for Secondary Education</td>
</tr>
</tbody>
</table>

| Semester Hours | 12 |

| Total Semester Hours | 121-122 |

1 Every semester one or two of the following courses will be offered: ITAL 3726, ITAL 3735, ITAL 3736, ITAL 3740, ITAL 3741, ITAL 3750, ITAL 3755, ITAL 3760, ITAL 3770. ITAL 3726 and ITAL 3736 will be scheduled regularly to ensure that all Italian Education majors have the opportunity to take both required courses prior to student teaching.

1. Prior to student teaching, students must achieve a level of Advanced Low on the Oral Proficiency Interview and on the Writing Proficiency Test, both administered by the American Council on the Teaching of Foreign Languages.
2. Students who change from the B.S. in Italian Education to the B.A. in Italian will need to complete a minor and, in addition to coursework in the Italian major, will need 20 hours at the 3700 level or higher.

Learning Outcomes

- Cultural Understanding – The student will develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken.
- Reading Comprehension – The student will be able to read and understand a variety of materials written in the target language. These materials may include but are not limited to: novels, plays, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).
- Listening Comprehension – The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, formal lectures, song, and film.
- Oral Expression – The student will be able to carry on a conversation and deliver a speech in the target language. The student will achieve a level of Advanced Low on the Oral Proficiency Interview administered by the American Council on the Teaching of Foreign Languages.
- Written Expression – The student will be able to compose in the target language a variety of written documents. These documents may include but are not limited to: formal and casual correspondence, essays, and creative works. The student will achieve a level of Advanced Low on the Writing Proficiency Test administered by the American Council on the Teaching of Foreign Languages.
Bachelor of Science in Education in Middle Childhood Education (4-9), Mathematics-Language Arts Concentration

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW
In cooperation with various discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year middle childhood license approved by the Ohio Department of Education. The Middle Childhood License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 127 semester hours of course work (each concentration area requires a specific number of semester hours) including a semester of student teaching. Please refer to the four year plan for additional information. This teaching license requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Middle Childhood Program Math and Language Arts Concentration will be qualified to teach in the grades 4-9 Math and Language Arts classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences
- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3701 Phonics in Reading Instruction
- TERG 3702 Developmental Reading Instruction
- TERG 3703 Assessment and Instruction in Reading
- TERG 2610 Reading Application in Content Areas Middle Years
- TEMC 3702 Teaching & Learning in Middle Schools

Preclinical Field Experiences
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

- TEMC 4804 Middle Level Instructional Design and Student Outcomes
- TEMC 4801 The Middle School Learning Community
- TEMC 3704 Teaching Mathematics in the Middle School
- TEMC 3706 Teaching Language Arts in the Middle School

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- TEMC 4803 Student Teaching Seminar for Middle Childhood Education
- TEMC 4802 Student Teaching: Middle Childhood

ADVICEMENT
Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all middle childhood majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

- 028 Middle Grades English Language Arts (for those with English Language Arts concentration)
- 030 Middle Grades Mathematics (for those with Mathematics concentration)
- 090 Foundations of Reading

ENDORSEMENTS
The following endorsements are available to individuals holding this teaching license and may increase marketability: K12 TESOL Endorsement, K-12 Reading Endorsement, Middle Childhood Generalist Endorsement (enables teaching in content areas not included in current course of study).

COURSE TITLE S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements
Core Competencies 12
- ENGL 1550 Writing 1 (requires a B average)
- ENGL 1549Writing 1 with Support
- ENGL 1551 Writing 2 (requires a B average)
- CMST 1545 Communication Foundations

Mathematics Requirement 3
- MATH 2665 Foundations of Middle School Mathematics 2

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Courses listed for GER’s below are required in this program. See page 2 for other General Education recommendations.

Arts and Humanities 6
Natural Sciences (2 courses, 1 lab) 7
Social Science 6
### General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.

### Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - Completion of 50 SH
  - Minimum 2.75 overall GPA
  - “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  - If failure to meet “B” average above must also complete:
    - ENGL 2601 grade of “B” or better.
  - If you receive a “C” or below you will need to retake the course.
  - “B” average or better (B-B-B, A-B-C) across the following:
    - EDFN 1501
    - CMST 1545
    - EDFN 1501
    - CMST 1545
    - EDFN 1501
    - CMST 1545
  - After completing a minimum of 50 SH, submit the following:
    - Upper Division application (Portal)
    - Good Moral Character Statement
    - Copy of BCI & FBI clearances
    - Writing prompt (Blackboard)
  - Deadlines for submission for upper division status (late applications may not be accepted):
    - September 1—to register for Upper Division Courses for Spring
    - February 1—to register for Upper Division Courses for Summer & Fall

### Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
  - Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

### Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  - Passage of OAE test(s) and ACTFL tests for foreign language

### Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language
Completing a Bachelor of Science in Education without Licensure

A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>MATH 1564</td>
<td>Foundations of Middle School Mathematics 1</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
</tr>
<tr>
<td>ENGL 2618</td>
<td>American Literature and Diversity (counts as AH or SPA Elective)</td>
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<td>TCED 1500</td>
<td>Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
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<tr>
<td><strong>Spring</strong></td>
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</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>MATH 2665</td>
<td>Foundations of Middle School Mathematics 2</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
</tr>
<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
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<tr>
<td>ENGL 2610</td>
<td>World Literature (counts as AH or SPA Elective)</td>
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<td><strong>Fall</strong></td>
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<tr>
<td>MATH 3767</td>
<td>Algebra/Geometry for Middle School Teachers</td>
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<td>Communication Foundations</td>
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<td>TERG 2610</td>
<td>Reading Application in Content Areas Middle Years</td>
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<td>ENGL 2651</td>
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<td>Social and Personal Awareness GER</td>
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<td><strong>Spring</strong></td>
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<td>MATH 3768</td>
<td>Algebra/Geometry for Middle School Teachers</td>
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<td>Natural Science GER</td>
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<td><strong>Year 3</strong></td>
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<td><strong>Fall</strong></td>
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<tr>
<td>MATH 4869</td>
<td>Functions, Calculus, and Applications for Middle School Teachers</td>
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<td>STAT 2601</td>
<td>Introductory Statistics</td>
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<td>Developmental Reading Instruction</td>
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<td>ENGL 3704</td>
<td>Literature for Middle School Readers</td>
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<td>Psychology of Education</td>
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<td>Social Science GER</td>
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<td><strong>Spring</strong></td>
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<tr>
<td>MATH 4870</td>
<td>Mathematics Concepts for Middle School Teachers</td>
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<tr>
<td>ENGL 3730</td>
<td>Teaching Language Arts</td>
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<td>ENGL 3739</td>
<td>Writing for Middle School Teachers</td>
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<td>TERG 3703</td>
<td>Assessment and Instruction in Reading</td>
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<td>TERG 3704</td>
<td>Middle Level Instructional Design and Student Outcomes</td>
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<tr>
<td>EDFN 3708</td>
<td>Education and Society</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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</table>

Learning Outcomes

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

- Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.
- Middle level teacher candidates understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents’ competence in subject matter. They use their knowledge and available resources to design,
implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. They design and teach curriculum that is responsive to all young adolescents’ local, national, and international histories, language/dialects, and individual identities (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).

- Middle level teacher candidates understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
- Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Middle level teacher candidates understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies, and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

**Bachelor of Science in Education in Middle Childhood Education (4-9), Mathematics-Social Studies Concentration**

**Program Coordinator**
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

**OVERVIEW**

In cooperation with various academic discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year Middle Childhood Education Program (grades 4-9), Math and Social Studies Concentration, approved by the Ohio Department of Education. The Middle Childhood, Math and Social Studies License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 137 semester hours of course work. This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

**EMPLOYMENT OPPORTUNITIES**

Graduates of the Middle Childhood Program will be qualified to teach in the grades 4-9 classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

**Professional Dispositions**

Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

**FIELD EXPERIENCES AND STUDENT TEACHING**

Students complete over 150 hours of preclinical experiences, and additional field experiences, which are included in the following courses and offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

**Field Experiences**

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3701 Phonics in Reading Instruction
- TERG 3702 Developmental Reading Instruction
- TERG 3703 Assessment and Instruction in Reading
- TERG 2610 Reading Application in Content Areas Middle Years
- TEMC 3702 Teaching & Learning in Middle Schools

**Preclinical Field Experiences**

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted (1) one year in advance on TaskStream, by September 1st for the preclinical experience. Contact the Education Academic Advisors for minimum preclinical prerequisites.

- TEMC 4804 Middle Level Instructional Design and Student Outcomes
- TEMC 4801 The Middle School Learning Community
- TEMC 3703 Thematic Instruction and Assessment Methods in Social Studies
- TEMC 3704 Teaching Mathematics in the Middle School

**Student Teaching**

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- TEMC 4803 Student Teaching Seminar for Middle Childhood Education
- TEMC 4802 Student Teaching: Middle Childhood

**ADVISEMENT**

Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/youth adult majors must complete a preclinical experience.

**REQUIRED ASSESSMENTS**

The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

- 030 Middle Grades Mathematics (for those with Mathematics concentration)
- 031 Middle Grades Social Studies (for those with Social Studies concentration)
- 090 Foundations of Reading

**ENDORSEMENTS**

The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12
Reading Endorsement, Middle Childhood Generalist Endorsement (enables teaching in content areas not included in current course of study).

### COURSE TITLE S.H.

**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tr>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1 (requires a B average)</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2 (requires a B average)</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>SPED 2630</td>
<td>Foundations of Middle School Mathematics 1</td>
<td>4</td>
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</table>

**General Education Requirements**

- **Arts and Humanities** (6 s.h.)
- **Natural Sciences** (2 courses, 1 with lab) (7 s.h.)
- **Social Science GER met in major**
- **PSYC 1560** General Psychology (3 s.h.)
- **Social and Personal Awareness (2 courses)** (6 s.h.)

**Major Requirements - Mathematics Concentration**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
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<td>MATH 2665</td>
<td>Foundations of Middle School Mathematics 2</td>
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<td>MATH 3767</td>
<td>Algebra/Geometry for Middle School Teachers</td>
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<tr>
<td>MATH 3768</td>
<td>Algebra/Geometry for Middle School Teachers</td>
<td>4</td>
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<tr>
<td>MATH 4869</td>
<td>Functions, Calculus, and Applications for Middle School Teachers</td>
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<td>MATH 4870</td>
<td>Mathematics Concepts for Middle School Teachers</td>
<td>3</td>
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<tr>
<td>STAT 2601</td>
<td>Introductory Statistics</td>
<td>3</td>
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<tr>
<td>HIST 1511</td>
<td>World Civilization to 1500 (SS)</td>
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<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500 (SS/SPA)</td>
<td>3</td>
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<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History 2 (SS/SPA)</td>
<td>3</td>
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<td>HIST 3748</td>
<td>History of Ohio</td>
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<td>GEOG 2640</td>
<td>Human Geography (SS/SPA)</td>
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<td>GEOG 3717</td>
<td>Geography of Europe</td>
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<td>POL 1560</td>
<td>American Government (SS)</td>
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<td>Contemporary World Governments (SS/SPA)</td>
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<td>POL 2695</td>
<td>Model United Nations</td>
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<td>ECON 2610</td>
<td>Principles 1: Microeconomics (SS)</td>
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<td>ECON 2631</td>
<td>Introductory Macroeconomics for Education Majors (SS)</td>
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<tr>
<td>ANTH 1500</td>
<td>Introduction to Anthropology</td>
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<tr>
<td>TCED 1500</td>
<td>Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
<td>3</td>
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<td>Introduction to Education</td>
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<td>PSYC 3709</td>
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<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
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<td>EDFN 3708</td>
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<td>TEMC 3702</td>
<td>Teaching &amp; Learning in Middle Schools</td>
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<td>TERG 3701</td>
<td>Phonics in Reading Instruction</td>
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<tr>
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<td>Reading Application in Content Areas Middle Years</td>
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<td>Developmental Reading Instruction 1</td>
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<td>TERG 3703</td>
<td>Assessment and Instruction in Reading 2</td>
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**Preclinical Curriculum**

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<tr>
<td>TEMC 4801</td>
<td>The Middle School Learning Community 2</td>
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<tr>
<td>TEMC 4804</td>
<td>Middle Level Instructional Design and Student Outcomes 2</td>
<td>3</td>
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<td>TEMC 3703</td>
<td>Thematic Instruction and Assessment Methods in Social Studies 2</td>
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<td>Teaching Mathematics in the Middle School 2</td>
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<td>TEMC 4802</td>
<td>Student Teaching: Middle Childhood 2</td>
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<tr>
<td>TEMC 4803</td>
<td>Student Teaching Seminar for Middle Childhood Education 2</td>
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</table>

**Total Semester Hours**

152-154

1 Prerequisites for preclinical curriculum.
2 Upper division course.

### General Information

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
- A grade of “C” or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

#### Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - ____ Completion of 50 SH
  - ____ Minimum 2.75 overall GPA
  - ____ “B” average or better (A-C, B-B) for ENGL 1550 and ENGL 1551.
    - If failure to meet “B” average above must also complete:
      - ____ ENGL 2601 grade of “B” or better.
  - ____ If you receive a “C” or below you will need to retake the course.
  - ____ “B” average or better (B-B-B, A-B-C) across the following:
    - ____ EDFN 1501
    - ____ CMST 1545
    - ____ SPED 2630
    - ____ MATH 1564, HIST 2606, or HIST 1511
    - After completing a minimum of 50 SH, submit the following:
      - Upper Division application (Portal)
      - Good Moral Character Statement
      - Copy of BCI & FBI clearances
      - Writing prompt (Blackboard)
      - Deadlines for submission for upper division status (late applications may not be accepted):
        - September 1 — to register for Upper Division Courses for Spring
        - February 1 — to register for Upper Division courses for Summer & Fall

### Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1 — for Fall preclinical (Late applications may not be accepted)
  - February 1 — for Spring preclinical (Late applications may not be accepted)
• Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching
• Student teaching application must be submitted following instructions found on the portal.
• Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  • September 1— to Student Teach the following Spring Semester
  • February 1— to Student Teach the following Fall Semester
• Prerequisites:
  • BCOE Upper Division status
  • Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  • Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure
• Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
• Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure
• A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1
Fall
YSU 1500 Success Seminar 1
ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
MATH 1564 Foundations of Middle School Mathematics 1 4
POL 1560 American Government 3
TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCOE 3
Natural Science/Lab GER 4
Semester Hours 18-19

Spring
ENGL 1551 Writing 2 3
MATH 2665 Foundations of Middle School Mathematics 2 4
SPED 2630 Individuals with Exceptionalities in Society 3
PSYC 1560 General Psychology 3
EDFN 1501 Introduction to Education 3
HIST 1511 World Civilization to 1500 3
Semester Hours 19

Year 2
Fall
MATH 3767 Algebra/Geometry for Middle School Teachers 1 4
GEOG 2640 Human Geography 3
HIST 1512 World Civilization from 1500 3
PSYC 3709 Psychology of Education 3
TERG 2610 Reading Application in Content Areas Middle Years 3
CMST 1545 Communication Foundations 3
Semester Hours 19

Spring
MATH 3768 Algebra/Geometry for Middle School Teachers 2 4
TERG 3701 Phonics in Reading Instruction 3
STAT 2601 Introductory Statistics 3
GEOG 3717 Geography of Europe 3
POL 2640 Contemporary World Governments (counts as SS or SPA Elective) 3
ANTH 1500 Introduction to Anthropology (counts as SS Elective) 3
Semester Hours 19

Year 3
Fall
MATH 4869 Functions, Calculus, and Applications for Middle School Teachers 3
TERG 3702 Developmental Reading Instruction 3
HIST 2606 Turning Points in United States History 2 3
ECON 2610 Principles 1: Microeconomics 3
Arts and Humanities GER 3
HIST 3748 History of Ohio 3
Semester Hours 18

Spring
MATH 4870 Mathematics Concepts for Middle School Teachers 3
TEMC 3702 Teaching & Learning in Middle Schools 3
TERG 3703 Assessment and Instruction in Reading 3
ECON 2631 Introductory Macroeconomics for Education Majors 3
Natural Science GER 3
Arts and Humanities GER 3
Semester Hours 18

Year 4
Fall
TEMC 4801 The Middle School Learning Community 3
TEMC 3704 Teaching Mathematics in the Middle School 3
TEMC 3703 Thematic Instruction and Assessment Methods in Social Studies 3
TEMC 4804 Middle Level Instructional Design and Student Outcomes 3
EDFN 3708 Education and Society 3
POL 2695 Model United Nations 1
Semester Hours 16

Spring
TEMC 4802 Student Teaching: Middle Childhood 10
TEMC 4803 Student Teaching Seminar for Middle Childhood Education 2
Semester Hours 12
Total Semester Hours 139-140

Learning Outcomes
The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content
The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

• Teachers understand student learning and development and respect the diversity of the students they teach.
• Teachers know and understand the content area for which they have instructional responsibility.
• Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
• Teachers plan and deliver effective instruction that advances the learning of each individual student.
• Teachers create learning environments that promote high levels of learning and achievement for all students.
• Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
• Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning.

The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

• Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.
• Middle level teacher candidates understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents’ competence in subject matter. They use their knowledge and available resources to design, implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge.
• Middle level teacher candidates understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
• Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
• Middle level teacher candidates understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies, and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

Bachelor of Science in Education in Middle Childhood Education (4-9), Mathematics-Science Concentration

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW
In cooperation with various academic discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year Middle Childhood Education Program (grades 4-9), Math and Science Concentration, approved by the Ohio Department of Education. The Middle Childhood Math and Science License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 136 semester hours of course work. This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES
Graduates of the Middle Childhood Program will be qualified to teach Math and Science in the grades 4-9 Math and/or Science classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING
Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide various levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Preclinical Field Experiences
The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

• TEMC 4804 Middle Level Instructional Design and Student Outcomes
• TEMC 4801 The Middle School Learning Community
• TEMC 3704 Teaching Mathematics in the Middle School
• TEMC 3705 The Teaching of Science in the Middle School

Student Teaching
Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.
• TECM 4803 Student Teaching Seminar for Middle Childhood Education
• TECM 4802 Student Teaching: Middle Childhood

ADVISEMENT
Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all middle childhood majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio's New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

030 Middle Grades Mathematics (for those with Mathematics concentration)
029 Middle Grades Science (for those with Science concentration)
090 Foundations of Reading

ENDORSEMENTS
The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1 (requires a B average)</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2 (requires a B average)</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2655</td>
<td>Foundations of Middle School Mathematics 2</td>
<td>4</td>
</tr>
</tbody>
</table>

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Some majors prescribe specific GE courses. If a course has been added to the domains, it is required.

Arts and Humanities 6
Natural Sciences (2 courses, 1 lab) 7
PSYC 1560 General Psychology 3
Social Science GER 3
Social and Personal Awareness 6

Major Requirements - Mathematics Concentration

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>MATH 1564</td>
<td>Foundations of Middle School Mathematics 1</td>
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</tr>
<tr>
<td>MATH 2665</td>
<td>Foundations of Middle School Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3767</td>
<td>Algebra/Geometry for Middle School Teachers 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3768</td>
<td>Algebra/Geometry for Middle School Teachers 2</td>
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<tr>
<td>MATH 4869</td>
<td>Functions, Calculus, and Applications for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MATH 4870</td>
<td>Mathematics Concepts for Middle School Teachers</td>
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</tr>
<tr>
<td>STAT 2601</td>
<td>Introductory Statistics</td>
<td>3.0</td>
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Science Concentration

<table>
<thead>
<tr>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1505</td>
<td>Biology and the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1500</td>
<td>Chemistry in Modern Living</td>
<td>3</td>
</tr>
</tbody>
</table>

GEOL 1505 & 1505L Physical Geology and Physical Geology Laboratory 4
GEOL 2605 Historical Geology 4
PHYS 2607 Physical Science for Middle and Secondary Education 4
ASTR 1504 Descriptive Astronomy 3
ENST 2600 Foundations of Environmental Studies 3
ENST 2600L Foundations of Environmental Studies Laboratory 1
GEOG 2630 Weather 3
TECM 3707 Science/Technology/Society 1,2 3

Professional Education Curriculum

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>TOED 1500</td>
<td>Introduction to Becoming a Teacher First Year Experience Course BCOE</td>
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<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3709</td>
<td>Psychology of Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society 1</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 3708</td>
<td>Education and Society</td>
<td>3</td>
</tr>
<tr>
<td>TECM 3702</td>
<td>Teaching &amp; Learning in Middle Schools 1,2</td>
<td>3</td>
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</table>

Reading Course Requirement

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>TERG 3701</td>
<td>Phonics in Reading Instruction</td>
<td>3</td>
</tr>
<tr>
<td>TERG 2610</td>
<td>Reading Application in Content Areas Middle Years</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3702</td>
<td>Developmental Reading Instruction</td>
<td>1</td>
</tr>
<tr>
<td>TERG 3703</td>
<td>Assessment and Instruction in Reading 2</td>
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</table>

Preclinical Curriculum

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>TECM 4801</td>
<td>The Middle School Learning Community 2</td>
<td>3</td>
</tr>
<tr>
<td>TECM 4804</td>
<td>Middle Level Instructional Design and Student Outcomes 2</td>
<td>3</td>
</tr>
<tr>
<td>TECM 3704</td>
<td>Teaching Mathematics in the Middle School 2</td>
<td>3</td>
</tr>
<tr>
<td>TECM 3705</td>
<td>The Teaching of Science in the Middle School 2</td>
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Student Teaching Curriculum

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>TECM 4802</td>
<td>Student Teaching: Middle Childhood 2</td>
<td>10</td>
</tr>
<tr>
<td>TECM 4803</td>
<td>Student Teaching Seminar for Middle Childhood Education 2</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Hours 149-151

1 Prerequisites for preclinical curriculum.
2 Upper division course.

General Information

• It is highly recommended that all teacher candidates meet with an academic advisor every semester.
• Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
• A grade of "C" or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

• Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
• Upper division requirements:
  • _____ Completion of 50 SH
  • _____ Minimum 2.75 overall GPA
  • _____ “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
Licensure
Completing a Bachelor of Science in Education without Licensure

- Completing a Bachelor of Science in Education with Student Teaching

Admission to Preclinical and Evaluation for Graduation

Student Teaching

- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)

- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1—to register for Upper Division Courses for Spring
  - February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
  - Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
  - Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
    - September 1—to Student Teach the following Spring Semester
    - February 1—to Student Teach the following Fall Semester

Prerequisites:

- BCOE Upper Division status
- Overall 2.75 GPA
- Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
- Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
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<tr>
<td>MATH 1564</td>
<td>Foundations of Middle School Mathematics 1</td>
<td>4</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>EDFN 1501</td>
<td></td>
<td></td>
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<tr>
<td>SPED 2630</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMST 1545</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 1505</td>
<td></td>
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Spring

<table>
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<tr>
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<th>Course Title</th>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>MATH 2665</td>
<td>Foundations of Middle School Mathematics 2</td>
<td>4</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1500</td>
<td>Chemistry in Modern Living</td>
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<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
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<tr>
<td>BIOL 1505</td>
<td>Biology and the Modern World</td>
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Year 2

Fall

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<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 3767</td>
<td>Algebra/Geometry for Middle School Teachers</td>
<td>4</td>
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<tr>
<td>ENST 2600</td>
<td>Foundations of Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENST 2600L</td>
<td>Foundations of Environmental Studies Laboratory</td>
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</tr>
<tr>
<td>PSYC 3709</td>
<td>Psychology of Education</td>
<td>3</td>
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<tr>
<td>TERG 2610</td>
<td>Reading Application in Content Areas Middle Years</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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Year 3

Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MATH 4869</td>
<td>Functions, Calculus, and Applications for Middle School Teachers</td>
<td>3</td>
</tr>
<tr>
<td>STAT 2601</td>
<td>Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ASTR 1504</td>
<td>Descriptive Astronomy</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3702</td>
<td>Developmental Reading Instruction</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Humanities GER</td>
<td></td>
<td>3</td>
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<tr>
<td>Social and Personal Awareness GER</td>
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Year 4

Fall

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>TECM 4801</td>
<td>The Middle School Learning Community</td>
<td>3</td>
</tr>
<tr>
<td>TECM 3704</td>
<td>Teaching Mathematics in the Middle School</td>
<td>3</td>
</tr>
</tbody>
</table>

GEOL 1505 Physical Geology
& 1505L and Physical Geology Laboratory
TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCOE
Learning Outcomes

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

- Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.
- Middle level teacher candidates understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents’ competence in subject matter. They use their knowledge and available resources to design, implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. They design and teach curriculum that is responsive to all young adolescents’ local, national, and international histories, language/dialects, and individual identities (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Middle level teacher candidates understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
- Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Middle level teacher candidates understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies, and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

Bachelor of Science in Education in Middle Childhood Education (4-9), Language Arts-Science Concentration

Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW

In cooperation with various academic discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year Middle Childhood Education Program (grades 4-9), Science and Language Arts Concentration, approved by the Ohio Department of Education. The Middle Childhood Science and Language Arts License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 130 semester hours of course work. This teaching field requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES

Graduates of the Middle Childhood Program will be qualified to teach in the grades 4-9 classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

Professional Dispositions

In addition to the above learning outcomes, teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING

Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
• SPED 2630 Individuals with Exceptionalities in Society
• TERG 3701 Phonics in Reading Instruction
• TERG 3702 Developmental Reading Instruction
• TERG 3703 Assessment and Instruction in Reading
• TERG 2610 Reading Application in Content Areas Middle Years
• TEMC 3702 Teaching & Learning in Middle Schools

Preclinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted to the Office of Student Field Experience one year in advance by September 1st.

• TEMC 4804 Middle Level Instructional Design and Student Outcomes
• TEMC 4801 The Middle School Learning Community
• TEMC 3705 The Teaching of Science in the Middle School
• TEMC 3706 Teaching Language Arts in the Middle School

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

• TEMC 4803 Student Teaching Seminar for Middle Childhood Education
• TEMC 4802 Student Teaching: Middle Childhood

ADVISEMENT

Advisement is provided by the Academic Advisors in the Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all middle childhood majors must complete a preclinical experience.

REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

028 Middle Grades English Language Arts (for those with English Language Arts concentration)

029 Middle Grades Science (for those with Science concentration)

090 Foundations of Reading

ENDORSEMENTS

The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12 Reading Endorsement, Middle Childhood Generalist Endorsement (enables teaching in content areas not included in current course of study).

Dr. Kathleen Cripe, Program Coordinator

OVERVIEW

In cooperation with various academic discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year Middle Childhood Education Program (grades 4-9), Science and Language Arts Concentration, approved by the Ohio Department of Education. The Middle Childhood Science and Language Arts License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 130 semester hours of course work. This teaching field requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES

Graduates of the Middle Childhood Program will be qualified to teach in the grades 4-9 classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

Professional Dispositions:

In addition to the above learning outcomes, teacher candidates are expected to display the following professional dispositions:

• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING

Students complete a number of field experiences to support the learning of content and best practices of teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Preclinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted to the Office of Student Field Experience one year in advance (September 1).

• TEMC 3702 Teaching & Learning in Middle Schools
  And
• TEMC 4801 The Middle School Learning Community
  And
• TEMC 3705 The Teaching of Science in the Middle School
  And
• TEMC 3706 Teaching Language Arts in the Middle School

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 37 during this experience.

• TEMC 4803 Student Teaching Seminar for Middle Childhood Education
  And
• TEMC 4802 Student Teaching: Middle Childhood
ADVISEMENT
Advisement is provided by the academic advisors in the Beeghly College of Liberal Arts, Social Sciences, and Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all middle childhood majors must complete a preclinical experience.

REQUIRED ASSESSMENTS
The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new licence area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

002 Assessment of Professional Knowledge (All MCE Candidates)
028 Middle Grades English Language Arts (for those with English Language Arts concentration)
029 Middle Grades Science (for those with Science concentration)
090 Foundations of Reading

ENDORSEMENTS
The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12

Professional Education Curriculum
TERG 3701 Phonics in Reading Instruction 3
TERG 2610 Reading Application in Content Areas Middle Years 3
TERG 3702 Developmental Reading Instruction 1 3
TERG 3703 Assessment and Instruction in Reading 2 3

Professional Education Curriculum
TERC 3700 Introduction to Becoming a Teacher First Year Experience Course BCOE 3
EDFN 1501 Introduction to Education 3
PSYC 3709 Psychology of Education 3
SPED 2630 Individuals with Exceptionalities in Society 1 3
EDFN 3708 Education and Society 3

Science Concentration
BIOL 1505 Biology and the Modern World (NS) 3
CHEM 1500 Chemistry in Modern Living (NS) 3

Science Concentration
GEOL 1505 Physical Geology & 1505L and Physical Geology Laboratory (NS)
GEOL 2605 Historical Geology 4

Science Concentration
PHYS 2607 Physical Science for Middle and Secondary Education (NS) 4

Science Concentration
ASTR 1504 Descriptive Astronomy (NS) 3
ENST 2600 Foundations of Environmental Studies 3
ENST 2600L Foundations of Environmental Studies Laboratory 1

Science Concentration
GEOG 2630 Weather 3

Science Concentration
TEMC 3707 Science/Technology/Society (upper division status - for science concentration area candidates only) 1,2 3

Science Concentration

Electronic Arts Concentration
CMST 2656 Interpersonal Communication 3
ENGL 2610 World Literature (AH/SPA) 3
Upper Division

- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
- Upper division requirements:
  - _____ Completion of 50 SH
  - _____ Minimum 2.75 overall GPA
  - _____ “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  - If failure to meet “B” average above must also complete:
    - _____ ENGL 2601 grade of “B” or better.
  - If you receive a “C” or below you will need to retake the course.
  - _____ “B” average or better (B-B-B, A-B-C) across the following:
    ____ EDFN 1501 _____ CMST 1545
    ____ SPED 2630 _____ BIOL 1505 or ENGL 1551
- After completing a minimum of 50 SH, submit the following:
  - Upper Division application (Portal)
  - Good Moral Character Statement
  - Copy of BCI & FBI clearances
  - Writing prompt (Blackboard)
- Deadlines for submission for upper division status (late applications may not be accepted):
  - September 1—to register for Upper Division Courses for Spring
  - February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

- Request must be submitted to TaskStream by one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical (Late applications may not be accepted)
  - February 1—for Spring preclinical (Late applications may not be accepted)
- Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

- Student teaching application must be submitted following instructions found on the portal.
- Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Prerequisites:
  - BCOE Upper Division status
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  - Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
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<tr>
<td>Fall</td>
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Semester Hours: 17

Spring

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Semester Hours: 16

Year 2

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Semester Hours: 18

Spring

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Semester Hours: 18

Year 3

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Semester Hours: 18

Spring

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<td>ENGL 3739</td>
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The learning outcomes for this program align with the 5 Standards of the of our teacher education programs. They are interrelated and connect in serve as an important tool for teachers as they consider their growth and for teachers as they continually reflect upon and improve their effectiveness. The following learning outcomes are based on The Ohio Standards for the Learning Outcomes

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<thead>
<tr>
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<tr>
<td>TEMC 3707</td>
<td>Science/Technology/Society</td>
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<td>TEMC 3702</td>
<td>Teaching &amp; Learning in Middle Schools</td>
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<tr>
<td>TERG 3703</td>
<td>Assessment and Instruction in Reading</td>
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<td>Social and Personal Awareness GER</td>
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| Semester Hours | 18 |

Year 4

Fall

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<td>TEMC 3705</td>
<td>The Teaching of Science in the Middle School</td>
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<tr>
<td>TEMC 3706</td>
<td>Teaching Language Arts in the Middle School</td>
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<td>EDFN 3708</td>
<td>Education and Society</td>
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<tr>
<td>TEMC 4804</td>
<td>Middle Level Instructional Design and Student Outcomes</td>
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| Semester Hours | 15 |

Spring

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<td>TEMC 4803</td>
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| Semester Hours | 12 |

| Total Semester Hours | 131 |

Learning Outcomes

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

• Teachers understand student learning and development and respect the diversity of the students they teach.
• Teachers know and understand the content area for which they have instructional responsibility.
• Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
• Teachers plan and deliver effective instruction that advances the learning of each individual student.
• Teachers create learning environments that promote high levels of learning and achievement for all students.
• Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
• Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

• Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.
• Middle level teacher candidates understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents’ competence in subject matter. They use their knowledge and available resources to design, implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. They design and teach curriculum that is responsive to all young adolescents’ local, national, and international histories, language/dialects, and individual identities (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socio-economic status, family composition).
• Middle level teacher candidates understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
• Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socio-economic status, family composition).
• Middle level teacher candidates understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies, and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

Bachelor of Science in Education in Middle Childhood Education (4-9), Language Arts-Social Studies Concentration

Program Coordinator
Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW

In cooperation with various academic discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year Middle Childhood Education Program (grades 4-9), Social Studies and Language Arts Concentration, approved by the Ohio Department of Education. The Middle Childhood Social Studies and Language Arts License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 134 semester hours of course work. This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES

Graduates of the Middle Childhood Program will be qualified to teach in the grades 4-9 classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

Professional Dispositions

Teacher candidates are expected to display the following professional dispositions:

• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills
FIELD EXPERIENCES AND STUDENT TEACHING

Students complete over 150 hours of preclinical experiences, and additional field experiences, which are included in the following courses and offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences
- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3701 Phonics in Reading Instruction
- TERG 3702 Developmental Reading Instruction
- TERG 3703 Assessment and Instruction in Reading
- TERG 2610 Reading Application in Content Areas Middle Years
- TEMC 3702 Teaching & Learning in Middle Schools

Preclinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted (1) one year in advance on TaskStream by September 1st for the preclinical experience. Contact the Education Academic Advisors for minimum preclinical prerequisites.

- TEMC 4804 Middle Level Instructional Design and Student Outcomes
- TEMC 4801 The Middle School Learning Community
- TEMC 3703 Thematic Instruction and Assessment Methods in Social Studies
- TEMC 3706 Teaching Language Arts in the Middle School

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- TEMC 4803 Student Teaching Seminar for Middle Childhood Education
- TEMC 4802 Student Teaching: Middle Childhood

ADVISEMENT

Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

028 Middle Grades English Language Arts (for those with English Language Arts concentration)
031 Middle Grades Social Studies (for those with Social Studies concentration)
090 Foundations of Reading

ENDORSEMENTS

The following endorsements are available to individuals holding this teaching license and may increase marketability: K12 TESOL Endorsement, K12 Reading Endorsement, Middle Childhood Generalist Endorsement (enables teaching in content areas not included in current course of study).

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<td>YSU 1500</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tr>
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<td>Writing 1 (requires a B average)</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2 (requires a B average)</td>
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<td>Communication Foundations</td>
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<td>One of the following courses may be taken to fulfill Math GER</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<td>OR:</td>
<td>MATH 2665 Foundations of Middle School Mathematics 2 ((Mathematics Concentration takes this course)</td>
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<tr>
<td>ENGL 2610</td>
<td>World Literature (AH/SPA)</td>
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<td>ENGL 2618</td>
<td>American Literature and Diversity (AH/SPA)</td>
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<td>ENGL 2651</td>
<td>Introduction to Language (SS/SPA)</td>
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<tr>
<td>ENGL 3700</td>
<td>Literary Study</td>
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<td>ENGL 3704</td>
<td>Literature for Middle School Readers</td>
<td>3</td>
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<td>ENGL 3730</td>
<td>Teaching Language Arts</td>
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<td>ENGL 3739</td>
<td>Writing for Middle School Teachers</td>
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Social Studies Concentration

- HIST 1511 World Civilization to 1500 (SS) 3
- HIST 1512 World Civilization from 1500 (SS/SPA) 3
- HIST 2606 Turning Points in United States History 2 (SS/SPA) 3
- HIST 3748 History of Ohio 3
- GEOG 2640 Human Geography (SS/SPA) 3
- GEOG 3717 Geography of Europe 3
- POL 1560 American Government (SS) 3
- POL 2640 Contemporary World Governments 3
- POL 2695 Model United Nations 1
- ECON 2610 Principles 1: Microeconomics (SS) 3
- ECON 2631 Introductory Macroeconomics for Education Majors (SS) 3
- ANTH 1500 Introduction to Anthropology (SS) 3

Professional Education Curriculum
TCED 1500  Introduction to Becoming a Teacher First Year 3
TCED 1500  Experience Course BCOE
PSYC 3709  Psychology of Education 3
EDFN 1501  Introduction to Education 3
SPED 2630  Individuals with Exceptionalities in Society 1 3
EDFN 3708  Education and Society 3
TECM 3702  Teaching & Learning in Middle Schools 1,2 3

Upper Division

• Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.

• Upper division requirements:
  • 30 Completion of 50 SH
  • Minimum 2.75 overall GPA
  • “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  • If failure to meet “B” average above must also complete:
    • ENGL 2601 grade of “B” or better.
  • If you receive a “C” or below you will need to retake the course.
  • “B” average or better (B-B-B, A-B-C) across the following:
    ___ EDFN 1501  ___ CMST 1545
    ___ SPED 2630  ___ ENGL 2651, HIST 2606, or HIST 1511

• After completing a minimum of 50 SH, submit the following:
  • Upper Division application (Portal)
  • Good Moral Character Statement
  • Copy of BCI & FBI clearances
  • Writing prompt (Blackboard)

• Deadlines for submission for upper division status (late applications may not be accepted):
  • September 1 — to register for Upper Division Courses for Spring
  • February 1 — to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

• Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  • September 1 — for Fall preclinical (Late applications may not be accepted)
  • February 1 — for Spring preclinical (Late applications may not be accepted)

• Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

• Student teaching application must be submitted following instructions found on the portal.

• Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:
  • September 1 — to Student Teach the following Spring Semester
  • February 1— to Student Teach the following Fall Semester

• Prerequisites:
  • BCOE Upper Division status
  • Overall 2.75 GPA
  • Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
  • Passage of OAE test(s) and ACTFL tests for foreign language

Completing a Bachelor of Science in Education with Licensure

• Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
• Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

• A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

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<td>American Government (counts as SS Elective)</td>
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Semester Hours: 20-21
Bachelor of Science in Education in Middle Childhood Education (4-9), Language Arts-Social Studies Concentration

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**Year 2**

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<td>HIST 1512</td>
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<td>TERC 2610</td>
<td>Reading Application in Content Areas Middle Years</td>
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<td>ENGL 2651</td>
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<td>3</td>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
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**Year 3**

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**Learning Outcomes**

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
- Teachers plan and deliver effective instruction that advances the learning of each individual student.
- Teachers create learning environments that promote high levels of learning and achievement for all students.
- Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
- Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

- Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.
- Middle level teacher candidates understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents’ competence in subject matter. They use their knowledge and available resources to design, implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. They design and teach curriculum that is responsive to all young adolescents’ local, national, and international histories, language/dialects, and individual identities (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Middle level teacher candidates understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
- Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
- Middle level teacher candidates understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies,
and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

Bachelor of Science in Education in Middle Childhood Education (4-9), Science-Social Studies Concentration

Program Coordinator

Dr. M. Kathleen L. Cripe, Chairperson and Program Coordinator

OVERVIEW

In cooperation with various academic discipline departments in the University, the Department of Teacher Education and Leadership Studies offers a four-year Middle Childhood Education Program (grades 4-9), Science and Social Studies Concentration, approved by the Ohio Department of Education. The Middle Childhood Science and Social Studies License (Grades 4-9), Bachelor of Science in Education degree requires a minimum of 140 semester hours of course work. This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

EMPLOYMENT OPPORTUNITIES

Graduates of the Middle Childhood Program will be qualified to teach in the grades 4-9 classroom. Additional opportunities may be available in the private sector to tutor students. It is recommended that students in this major consider adding the Middle Childhood Generalist Endorsement to increase marketability.

Professional Dispositions

Teacher candidates are expected to display the following professional dispositions:

- Creating fairness in the classroom
- Providing an inclusive environment that is safe and conducive to learning
- Demonstrating the belief that all students can learn
- Fostering collaborative relationships to support student learning and well-being
- Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING

Students complete over 150 hours of preclinical experiences, and additional field hours, included in the following courses, which offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, co-teaching, whole class teaching).

Field Experiences

- EDFN 1501 Introduction to Education
- EDFN 3708 Education and Society
- SPED 2630 Individuals with Exceptionalities in Society
- TERG 3701 Phonics in Reading Instruction
- TERG 3702 Developmental Reading Instruction
- TERG 3703 Assessment and Instruction in Reading
- TERG 2610 Reading Application in Content Areas Middle Years
- TEMC 3702 Teaching & Learning in Middle Schools

Preclinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Middle Childhood preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted (1) one year in advance on TaskStream by September 1st for the preclinical experience. Contact the Education Academic Advisors for minimum preclinical prerequisites.

- TEMC 4804 Middle Level Instructional Design and Student Outcomes
- TEMC 4801 The Middle School Learning Community
- TEMC 3703 Thematic Instruction and Assessment Methods in Social Studies
- TEMC 3705 The Teaching of Science in the Middle School

Student Teaching

Students complete a 16 week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 39 during this experience.

- TEMC 4803 Student Teaching Seminar for Middle Childhood Education
- TEMC 4802 Student Teaching: Middle Childhood

ADVISEMENT

Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all adolescent/young adult majors must complete a preclinical experience.

REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assess the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio’s New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

- 029 Middle Grades Science (for those with Science concentration)
- 031 Middle Grades Social Studies (for those with Social Studies concentration)
- 090 Foundations of Reading

ENDORSEMENTS

The following endorsements are available to individuals holding this teaching license and may increase marketability: K-12 TESOL Endorsement, K-12 Reading Endorsement, Middle Childhood Generalist Endorsement (enables teaching in content areas not included in current course of study).

REQUIRED ASSESSMENTS

Course Title

| YSU 1500 | Success Seminar | 1-2 |
| or SS 1500 | Strong Start Success Seminar | 1-2 |
| or HONR 1500 | Intro to Honors | 1-2 |

General Education Requirements

| ENGL 1550 | Writing 1 (requires a B average) | 3-4 |
| or ENGL 1549 | Writing 1 with Support | 3-4 |
| ENGL 1551 | Writing 2 (requires a B average) | 3 |
| CMST 1545 | Communication Foundations | 3 |
| Mathematics Requirement | 3 |

One of the following courses may be taken to fulfill Mathematics requirement.

| YSU 2623 | Quantitative Reasoning | 3 |
| or |
| YSU 2665 | Foundations of Middle School Mathematics 2 | 3 |
| (Mathematics Concentration takes this one) | 3 |

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<td>or HONR 1500</td>
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Some courses are categorized in more than one Knowledge Domain. Courses can only be used once within the General Education model. Courses listed for Knowledge Domains below are required in this program. See page 2 for other General Education recommendations.

Arts and Humanities (6 s.h.)
Natural Sciences (2 courses, 1 with lab) (7 s.h.)
The required 7 s.h. are met with courses in the major.
Social Science (6 s.h.)

Required 6 s.h. are met with courses in the major.

Major Requirements - Science Concentration

BIOL 1505 Biology and the Modern World (NS) 3
CHEM 1500 Chemistry in Modern Living (NS) 3
GEOL 1505 & 1505L and Physical Geology Laboratory (NS) 4
GEOL 2605 Historical Geology 4

PHYS 2607 Physical Science for Middle and Secondary Education (NS) 4
ASTR 1504 Descriptive Astronomy (NS) 3
ENST 2600 Foundations of Environmental Studies 3
ENST 2600L Foundations of Environmental Studies Laboratory 1

GEOD 2630 Weather 3

TEM 3707 Science/Technology/Society 3

Social Studies Concentration

HIST 1511 World Civilization to 1500 (SS) 3
HIST 1512 World Civilization from 1500 (SS/SPA) 3
HIST 2606 Turning Points in United States History 2 (SS/SPA) 3
HIST 3748 History of Ohio 3

GEOD 2640 Human Geography (SS/SPA) 3
GEOD 3717 Geography of Europe 3

POL 1550 American Government (SS) 3

POL 2640 Contemporary World Governments (SS/SPA) 3
POL 2695 Model United Nations 1

ECON 2610 Principles 1: Microeconomics (SS) 3

ECON 2631 Introductory Macroeconomics for Education Majors (SS) 3

ANTH 1500 Introduction to Anthropology (SS) 3

Professional Education Curriculum

TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCOE 3

EDFN 1501 Introduction to Education 3

PSYC 3709 Psychology of Education 3

SPED 2630 Individuals with Exceptionalities in Society 3

EDFN 3708 Education and Society 3

TEM 3702 Teaching & Learning in Middle Schools 3

Reading Course Requirements

TERG 3701 Phonics in Reading Instruction 3
TERG 2610 Reading Application in Content Areas Middle Years 3

TERG 3702 Developmental Reading Instruction 1

TERG 3703 Assessment and Instruction in Reading 3

Preclinical Curriculum

TEM 4801 The Middle School Learning Community 2
TEM 4804 Middle Level Instructional Design and Student Outcomes 2
TEM 3703 Thematic Instruction and Assessment Methods in Social Studies 2

TEM 3705 The Teaching of Science in the Middle School 2

Student Teaching Curriculum

TEM 4802 Student Teaching: Middle Childhood 2
TEM 4803 Student Teaching Seminar for Middle Childhood Education 2

Total Hours Required for the Degree: 140 s.h.

1 Prerequisites for preclinical curriculum.
2 Upper division course.

General Information

• It is highly recommended that all teacher candidates meet with an academic advisor every semester.

• Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.

• A grade of “C” or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division

• Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.

• Upper division requirements:

• ___ Completion of 50 SH
• ___ Minimum 2.75 overall GPA
• ___ “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.

• If failure to meet “B” average above must also complete: ___ ENGL 2601 grade of “B” or better.

• If you receive a “C” or below you will need to retake the course.

• ___ “B” average or better (B-B-B, A-B-C) across the following:

  ____ EDFN 1501 ____ CMST 1545
  ____ SPED 2630 ____ BIOL 1505, HIST 2606, or HIST 1511

• After completing a minimum of 50 SH, submit the following:

  • Upper Division application (Portal)
  • Good Moral Character Statement
  • Copy of BCI & FBI clearances
  • Writing prompt (Blackboard)

• Deadlines for submission for upper division status (late applications may not be accepted):

  • September 1 — to register for Upper Division Courses for Spring
  • February 1 — to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation

• Request must be submitted to TaskStream One year prior to the intended preclinical semester no later than:

  • September 1 — for Fall preclinical (Late applications may not be accepted)
  • February 1 — for Spring preclinical (Late applications may not be accepted)

• Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching

• Student teaching application must be submitted following instructions found on the portal.

• Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:

  • September 1 — to Student Teach the following Spring Semester
  • February 1 — to Student Teach the following Fall Semester
Completing a Bachelor of Science in Education with Licensure

- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

Completing a Bachelor of Science in Education without Licensure

- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

Year 1

Fall
- YSU 1500 Success Seminar 1
- ENGL 1550 Writing 1 3-4
  or ENGL 1549 Writing 1 with Support
- MATH 2623 Quantitative Reasoning 3
- POL 1560 American Government (counts as SS or SPA Elective) 3
- GEOL 1505 Physical Geology & 1505L and Physical Geology Laboratory 4
- TEMC 4801 Introduction to Education 1
- TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BCOE 3

Semester Hours 20-21

Spring
- ENGL 1551 Writing 2 3
- CHEM 1500 Chemistry in Modern Living 3
- SPED 2630 Individuals with Exceptionalities in Society 3
- PSYC 1560 General Psychology 3
- HIST 1511 World Civilization to 1500 3
- BIOL 1505 Biology and the Modern World 3

Semester Hours 18

Year 2

Fall
- GEOG 2640 Human Geography (counts as SS Elective) 3
- HIST 1512 World Civilization from 1500 3
- ENST 2600 Foundations of Environmental Studies 3
- ENST 2600L Foundations of Environmental Studies Laboratory 1
- HIST 2606 Turning Points in United States History 2 3
- CMST 1545 Communication Foundations 3
- TERG 2610 Reading Application in Content Areas Middle Years 3

Semester Hours 19

Spring
- PHYS 2607 Physical Science for Middle and Secondary Education 4
- TERG 3701 Phonics in Reading Instruction 3
- ASTR 1504 Descriptive Astronomy 3

Semester Hours 16

Year 3

Fall
- TERG 3702 Developmental Reading Instruction 3
- ANTH 1500 Introduction to Anthropology (counts as SS or SPA Elective) 3
- ECON 2610 Principles 1: Microeconomics 3
- PSYC 3709 Psychology of Education 3
- Arts and Humanities GER 3
- HIST 3748 History of Ohio 3

Semester Hours 18

Spring
- ECON 2631 Introductory Macroeconomics for Education Majors 3
- TEMC 3707 Science/Technology/Society 3
- GEOL 2605 Historical Geology 4
- Arts and Humanities GER 3
- TEMC 3702 Teaching & Learning in Middle Schools 3
- TERG 3703 Assessment and Instruction in Reading 3

Semester Hours 19

Year 4

Fall
- TEMC 4801 The Middle School Learning Community 3
- TEMC 3703 Thematic Instruction and Assessment Methods in Social Studies 3
- TEMC 3705 The Teaching of Science in the Middle School 3
- TEMC 4804 Middle Level Instructional Design and Student Outcomes 3
- POL 2695 Model United Nations 1
- EDFN 3708 Education and Society 3

Semester Hours 16

Spring
- TEMC 4802 Student Teaching: Middle Childhood 10
- TEMC 4803 Student Teaching Seminar for Middle Childhood Education 2

Semester Hours 12

Total Semester Hours 141-142

Learning Outcomes

The following learning outcomes are based on The Ohio Standards for the Teaching Profession. These standards were developed for use as a guide for teachers as they continually reflect upon and improve their effectiveness as educators throughout all of the stages of their careers. These standards serve as an important tool for teachers as they consider their growth and development in the profession. These standards in developing and content of our teacher education programs. They are interrelated and connect in teachers’ practice.

- Teachers understand student learning and development and respect the diversity of the students they teach.
- Teachers know and understand the content area for which they have instructional responsibility.
- Teachers understand and use varied assessments to inform instruction, evaluate and ensure student learning.
• Teachers plan and deliver effective instruction that advances the learning of each individual student.
• Teachers create learning environments that promote high levels of learning and achievement for all students.
• Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.
• Teachers collaborate and communicate with students, parents, other educators, administrators and the community to support student learning. Teachers assume responsibility for professional growth, performance and involvement as an individual and as a member of a learning community.

The learning outcomes for this program, align with the 5 Standards of the Association for Middle Level Education (AMLE):

• Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to young adolescent development and use that knowledge in their practice. They demonstrate their ability to apply this knowledge when making curricular decisions, planning and implementing instruction, participating in middle level programs and practices, and providing healthy and effective learning environments for all young adolescents.
• Middle level teacher candidates understand and use the central concepts, standards, research, and structures of content to plan and implement curriculum that develops all young adolescents’ competence in subject matter. They use their knowledge and available resources to design, implement, and evaluate challenging, developmentally responsive curriculum that results in meaningful learning outcomes. Middle level teacher candidates demonstrate their ability to assist all young adolescents in understanding the interdisciplinary nature of knowledge. They design and teach curriculum that is responsive to all young adolescents’ local, national, and international histories, language/dialects, and individual identities (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
• Middle level teacher candidates understand the major concepts, principles, theories, and research underlying the philosophical foundations of developmentally responsive middle level programs and schools, and they work successfully within middle level organizational components.
• Middle level teacher candidates understand, use, and reflect on the major concepts, principles, theories, and research related to data-informed instruction and assessment. They employ a variety of developmentally appropriate instructional strategies, information literacy skills, and technologies to meet the learning needs of all young adolescents (e.g., race, ethnicity, culture, age, appearance, ability, sexual orientation, socioeconomic status, family composition).
• Middle level teacher candidates understand their complex roles as teachers of young adolescents. They engage in practices and behaviors that develop their competence as middle level professionals. They are informed advocates for young adolescents and middle level education, and work successfully with colleagues, families, community agencies, and community members. Middle level teacher candidates demonstrate positive dispositions and engage in ethical professional behaviors.

Bachelor of Science in Education in Spanish (PK-12) - Multi-Age License

Multi-Age Education (PK-12) Spanish
Program Coordinator
Dr. Jennifer Behney, Program Coordinator

OVERVIEW
The program in Spanish Education prepares students to become a teacher of foreign language at the high school, middle school, and elementary school levels in the state of Ohio. Graduates are fully licensed to teach Spanish in Ohio (Multi-age PK-12 License) and are fully prepared in their knowledge of the target language, of best practices and standards in general pedagogy, and of specific Second Language Acquisition (SLA) theories and foreign language education techniques. Students enter student teaching in the last semester of study with a level of Advanced Low in both oral and written communication in the target language, as measured by the Oral Proficiency Interview (OPI) and the Writing Proficiency Test (WPT) and as required by the American Council on the Teaching of Foreign Languages (ACTFL).

The Multi-Age Spanish License, Grades PK-12, Bachelor of Science in Education degree requires a minimum of 120 semester hours of course work. This teaching field also requires passage of the Ohio Assessments for Educators in order to be eligible to student teach.

Professional Dispositions
Teacher candidates are expected to display the following professional dispositions:

• Creating fairness in the classroom
• Providing an inclusive environment that is safe and conducive to learning
• Demonstrating the belief that all students can learn
• Fostering collaborative relationships to support student learning and well-being
• Exhibiting professional skills

FIELD EXPERIENCES AND STUDENT TEACHING

Students complete a number of field experiences to support the learning of content and best practices in teaching. Field experiences offer opportunities to provide varying levels of classroom support (observing, one-on-one tutoring, small group teaching, whole class teaching).

Field Experiences

• EDFN 1501 Introduction to Education
• EDFN 3708 Education and Society
• SPED 2630 Individuals with Exceptionalities in Society
• TERG 3711 Reading Application in Content Areas, Secondary Years
• SED 3706 Principles of Teaching Adolescents

Preclinical Field Experiences

The preclinical experience is conducted in local schools and provides an opportunity for teacher candidates to complete an in-depth field experience prior to student teaching. This field experience requires a substantial time commitment, as teacher candidates spend the entire day in schools during designated weeks. The Spanish Education preclinical experience is scheduled during the fall semester. Applications for the preclinical experience must be submitted on TaskStream one year in advance by September 1st.

• FNGL 4801 Methods of Foreign Language Teaching
• EDFN 3710 Educational Assessment

Student Teaching

• SED 4827 Supervised Student Teaching: Language (K-12)
• SED 4842A Student Teaching Seminar for Secondary Education

Students complete a 16-week student teaching experience. Students must pass the edTPA performance-based assessment with a minimum score of 34 during this experience.

ADVISEMENT

Advisement is provided by the Academic Advisors in Education. Majors in this program must complete general education requirements, subject area curriculum requirements, reading course requirements, and professional education requirements. Prior to student teaching, all Spanish education majors must complete a preclinical experience.
REQUIRED ASSESSMENTS

The Ohio Assessments for Educators (OAE) assesses the content area and professional (pedagogical) knowledge of candidates who are seeking initial Ohio educator license or adding a new license area. The assessments are aligned with Ohio's New Learning Standards. Teacher candidates must pass these exams prior to student teaching.

ACTFL Oral Proficiency Interview, Writing Proficiency Test. These exams are administered by Language Testing International/ACTFL.

ACTFL Oral Proficiency Interview, Writing Proficiency Test. These exams are administered by Language Testing International/ACTFL.

COURSE TITLE  S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements
ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3

Mathematics Requirement
One of the following courses may be taken to fulfill Math GER:
MATH 2623 Quantitative Reasoning
PHIL 2619 Introduction to Logic
or STAT 2601 Introductory Statistics

Arts and Humanities 6
Natural Sciences (2 courses 1 lab) 7
Social Science 6
PSYC 1560 General Psychology 6
Social Science GER
Social and Personal Awareness 6

Subject Area Curriculum
SPAN 2600 Intermediate Spanish (A student who starts with SPAN 2605, may take SPAN 2600 Credit by Examination) 4
SPAN 2605 Advanced Intermediate Spanish 3
SPAN 3702 Intensive Spanish Review 3
SPAN 3724 Spanish Pronunciation 3
SPAN 3735 Advanced Spanish Grammar and Composition 3
SPAN 3736 Introduction to Spanish Linguistics 3
SPAN 3755 Advanced Spanish Conversation 3
SPAN 4880 Spanish Conversation and Composition Capstone 3
FNLG 4899 Professional Development for Teachers 1
ENGL 4851 Language Acquisition 3

Five of the following courses: 15
SPAN 3740 Business Spanish
SPAN 3758 Culture and Literature of Spanish-Speaking Groups in the United States
SPAN 3762 Culture: Spain
SPAN 3763 Introduction to Literature: Spain
SPAN 3766 Culture: Spanish-America
SPAN 3767 Introduction to Literature: Spanish-America

Professional Education Curriculum
TCED 1500 Introduction to Becoming a Teacher First Year Experience Course BOE 3
SED 3706 Principles of Teaching Adolescents 2 3
EDFN 1501 Introduction to Education 3
SPED 2630 Individuals with Exceptionalities in Society 1 3
EDFN 3708 Education and Society 3

PSYC 3709 Psychology of Education 3
TERR 3711 Reading Application in Content Areas, Secondary Years 4 3

Preclinical Curriculum
FNLG 4801 Methods of Foreign Language Teaching 3
EDFN 3710 Educational Assessment 3

Student Teaching Curriculum
SED 4827 Supervised Student Teaching: Language (K-12) 2 10
SED 4842A Student Teaching Seminar for Secondary Education 2 2

Total Semester Hours 121-123

1 Prerequisites for preclinical curriculum
2 Upper Division Courses

General Information
• It is highly recommended that all teacher candidates meet with an academic advisor every semester.
• Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the TELS Teacher Education Programs or candidacy for a teaching license.
• A grade of “C” or better is required in all courses. Some courses cannot be taken CR/NC. Check with an Advisor. Professional education and preclinical courses may only be repeated one time.

Upper Division
• Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in TELS.
• Upper division requirements:
  • _____ Completion of 50 SH
  • _____ Minimum 2.75 overall GPA
  • _____ “B” average or better (A-C, B-B) for: ENGL 1550 and ENGL 1551.
  • If failure to meet “B” average above must also complete:
    • _____ ENGL 2601 grade of “B” or better.
  • If you receive a “C” or below you will need to retake the course.
  • _____ “B” average or better (B-B-B, A-B-C) across the following:
    ____ EDFN 1501 ______ CMST 1545
    ____ SPED 2630 ______ SPAN 2605
• After completing a minimum of 50 SH, submit the following:
  • Upper Division application (Portal)
  • Good Moral Character Statement
  • Copy of BCI & FBI clearances
  • Writing prompt (Blackboard)
• Deadlines for submission for upper division status (late applications may not be accepted):
  • September 1—to register for Upper Division Courses for Spring
  • February 1—to register for Upper Division courses for Summer & Fall

Admission to Preclinical and Evaluation for Graduation
• Request must be submitted to TaskStream one year prior to the intended preclinical semester no later than:
  • September 1—for Fall preclinical (Late applications may not be accepted)
  • February 1—for Spring preclinical (Late applications may not be accepted)
• Content GPA (2.67 minimum), Professional GPA (2.67 minimum), Overall GPA (2.75 minimum).

Student Teaching
• Student teaching application must be submitted following instructions found on the portal.
Late applications will likely result in a delay to student teaching by one semester. Application and forms are due to the Office of Student Field Experience:

- September 1— to Student Teach the following Spring Semester
- February 1— to Student Teach the following Fall Semester

**Prerequisites:**
- BCOE Upper Division status
- Overall 2.75 GPA
- Minimum of 2.67 GPA in subject area curriculum and 2.67 in professional education courses with no grade less than a “C”
- Passage of OAE test(s) and ACTFL tests for foreign language

**Completing a Bachelor of Science in Education with Licensure**
- Successful completion of student teaching (endorsed) with CPAST average score of 2 with no zeros
- Minimum score of 39 on edTPA, with the exception of a 34 for Foreign Language

**Completing a Bachelor of Science in Education without Licensure**
- A teacher candidate may choose to graduate without licensure. Teacher candidates who wish to graduate without licensure must take TCED 4830 (3 SH) capstone course in place of student teaching.

### Year 1

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<td>SPAN 2600</td>
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<td>PHIL 2619</td>
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<td>STAT 2601</td>
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<td>Natural Sciences + Lab GER</td>
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<td>Social and Personal Awareness GER</td>
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<td>Individuals with Exceptionalities in Society</td>
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### Year 3

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<td>PSYC 3709</td>
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<td>ENGL 4851</td>
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<td>FNGL 4899</td>
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<td>SED 3706</td>
<td>Principles of Teaching Adolescents</td>
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<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
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<td>SPAN 4880</td>
<td>Spanish Conversation and Composition Capstone</td>
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<td>FNGL 4801</td>
<td>Methods of Foreign Language Teaching</td>
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<td>SPAN 37XX</td>
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<td>EDFN 3710</td>
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<td>SED 4827</td>
<td>Supervised Student Teaching: Language (K-12)</td>
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¹ Each semester, two of the following courses will be offered: SPAN 3724, SPAN 3735, SPAN 3736, SPAN 3755, SPAN 3740, SPAN 3758, SPAN 3762, SPAN 3763, SPAN 3766, SPAN 3767

### Notes:
1. Prior to student teaching, students must achieve a level of Advanced Low on the Oral Proficiency Interview and on the Writing Proficiency Test, both administered by the American Council on the Teaching of Foreign Languages.
2. Students who change from the B.S. in Spanish Education to the B.A. in Spanish will need to complete a minor and, in addition to coursework in the Spanish major, will need 20 hours at the 3700 level or higher.

### Learning Outcomes
- Cultural Understanding – The student will develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken.
- Reading Comprehension – The student will be able to read and understand a variety of materials written in the target language. These materials may include but are not limited to: novels, plays, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).
Listening Comprehension – The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, formal lectures, song, and film.

Oral Expression – The student will be able to carry on a conversation and deliver a speech in the target language. The student will achieve a level of Advanced Low on the Oral Proficiency Interview administered by the American Council on the Teaching of Foreign Languages.

Written Expression – The student will be able to compose in the target language a variety of written documents. These documents may include but are not limited to: formal and casual correspondence, essays, and creative works. The student will achieve a level of Advanced Low on the Writing Proficiency Test administered by the American Council on the Teaching of Foreign Languages.

Bachelor of Science in Education in Special Education: Intervention Specialist Mild/Moderate Needs K-12

Introduction
Candidates of the program are prepared for careers as intervention specialists who provide enhanced social skills of those with a disability, reinforcement-based behavioral interventions, inclusion strategies, and assistive technology to individuals with exceptionalities. Each of our degree programs prepares candidates to successfully pass the Ohio licensure exam which will result in the corresponding Intervention Specialist Licensure. The YSU student chapter of Council for Exceptional Children (CEC) participates in multiple college, university, and community events to advocate for individuals with exceptional learning needs.

Welcome
Our Special Education (Mild-Moderate Licensure) program is designed to prepare graduates with the knowledge, skills, and dispositions to best serve in schools and agencies in the area. Our Special Education program seeks to meet the educational and service needs of Northeast Ohio and Western Pennsylvania. Our program is exemplified by the quality and diversity of classroom instruction, field experiences, program options, student, faculty, and graduates in the community. YSU has a long history of producing accomplished graduates who have served the area as Special Education teachers, Intervention Specialists, and Special Education Professionals. We have a strong connection with our alumni, program supervisors, schools and agencies, and others who support students with exceptional learning needs in the Youngstown area.

Undergraduate candidates will find a unique educational experience that prepares them for employment and/or advanced study in Special Education. For more information, review our website and contact Special Education faculty with any questions.

Pam Epler, Ph.D.
Program Director/Assistant Professor
2211 Beeghly Hall
Beeghly College of Liberal Arts, Social Sciences, and Education
Department of Teacher Education and Leadership Studies
(330) 941-7230
pleplerbrooks@ysu.edu

For specific questions about the Intervention Specialist (Mild/Moderate) Licensure Option in Special Education program, please contact the program director.

Intervention Specialist License (K-12)
The Intervention Specialist program requires a minimum of 121 s.h. The BS in Education degree requires the courses listed on the curriculum sheet.

Licensure also requires passing the Ohio Assessments for Educators Exams prior to student teaching.

The Learning Outcomes for this program align with the seven Standards of the Council for Exceptional Children (CEC):

- Candidates will analyze learners to determine unique needs using the principles and theories of human development.
- Candidates will prioritize areas of the general curriculum and accommodations for individuals with exceptional learning needs.
- Candidates will individualize instruction to meet the unique learning, communication, social and behavior needs of students with exceptional learning needs.
- Candidates will develop and use appropriate technology adaptations for all individuals with exceptional learning needs.
- Candidates will demonstrate reinforcement-based classroom management interventions with students with exceptional learning needs.
- Candidates will evaluate the progress of students with exceptional learning needs on their IEP goals to inform the adjustment of learning and behavior plans.
SPED 4867 Intervention and Remediation of Receptive/Expressive Language Dysfunction 3
SPED 4868 Mild/Moderate Disabilities Practicum 4

Professional Education Curriculum
EDFN 1501 Introduction to Education 3
EDFN 3708 Education and Society 3
PSYC 3709 Psychology of Education 3
SPED 2630 Individuals with Exceptionalities in Society 3
TERG 2610 Reading Application in Content Areas Middle Years 3
TERG 3701 Phonics in Reading Instruction 3
TERG 3702 Developmental Reading Instruction 3
TERG 3703 Assessment and Instruction in Reading 3

Preclinical Curriculum
SPED 4854 Cross-Curricular Interventions 4
SPED 4835 Classroom Management for Exceptional Children and Youth 4
SPED 4851 Transition Planning, Social Skill Development and Health-Related Issues 3
SPED 4864 Service Coordination, Collaboration, and Consultation for Students with Special Needs 3

Student Teaching
SPED 4849 Supervised Student Teaching: Mild Moderate/Disabilities 12
SPED 4869 Student Teaching Seminar for Special Education

Total Semester Hours 122-124

BCOE Notes:

Advisement:

- It is highly recommended that all teacher candidates meet with an academic advisor every semester.
- Freshmen, athletes, and students on warning and probation are required to meet with an advisor before registration.
- At the completion of 30 SH any teacher candidate who: 1) has passed PRAXIS Core Exam(s), or 2) holds a GPA of 2.25 or below will be referred to Central Advising for advising and career services. If a later date the teacher candidate passes all required parts of the Praxis Core Exam and attains a GPA of 2.25 or higher that student may return to BCOE for advising.

Important Notes:

- Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the BCOE’s Teacher Education Programs or candidacy for a teaching license.
- Formal Admission to Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in BCOE.
- Undetermined education majors must declare a major before applying for admission to a Teacher Education Program.
- Admission to a Teacher Education Program is obtained upon satisfactory completion of the following requirements:

  - Minimum completion of 50 SH
  - Minimum 2.75 overall GPA
  - Meet one of the following criteria:
    - Overall GPA 3.4 or better, OR
    - ACT scores of Reading-21, English-18, Math-22, AND/OR
    - SAT scores of Reading-450, Writing-430, Math-520, AND/OR
    - Praxis CORE scores, Reading-156, Writing-162, Math-150

(Attach a copy of your CORE scores to the application)

- “B” average or better (A-C, B-B) for:
  - ENGL 1550, ENGL 1551
If failure to meet “B” average above must also complete:
  - ENGL 2601 grade of “B” or better
If you receive a “C” or below you will need to retake the course.

  - “B” average or better (B-B-B, A-B-C) across the following:
    - EDFN 1501, CMST 1545
    - SPED 2630, SPED 3715
If student does not have a “B” average, student will be required to retake one or more of these courses until the “B” average is achieved.

  - A grade of “C+” or better is required in all required major courses. Courses taken as “CR/NC” will not count towards the major
  - Professional education and block courses may only be repeated one time.
  - Minimum requirements for teaching licenses are determined by the Ohio Department of Education; if those requirements change, they become effective immediately at Youngstown State University. (YSU Undergraduate Catalog).

Upper-Division Application Process

- Upper division application and forms must be printed from the BCOE website.
- After completing a minimum of 50 SH, submit the following:
  - Upper Division application
  - Good Moral Character Statement
  - copy of BCI & FBI clearances
  - schedule an upper division interview with the BCOE Office of Student Services, room 2101, no later than:
  - Upper Division Application Deadline
    - September 1 — to register for Upper Division Courses for Spring
    - February 1 — to register for Upper Division courses for Summer & Fall
  - Each completed application is reviewed and approved by the Upper Division Admission and Retention Committee. If all requirements are met, the teacher candidate may register for Upper Division courses for the following semester. Upper Division courses are the courses designated with the “*” symbol. Applications submitted after the deadline will not be processed until the end of the respective semester.

Program Notes:

- If Math concentration is chosen, Math GER is not required. If Science concentration is chosen, Natural Science GER is fulfilled through subject area curriculum. If Language Arts concentration is chosen, Arts & Humanities GER is fulfilled through subject area curriculum. If Social Studies concentration is chosen, Social Sciences GER is fulfilled through subject area curriculum.
- Candidates will not be permitted to take the following professional education courses more than twice: EDFN 1501, EDFN 3708, PSYC 3709, SPED 2630, TERG 2601, 3701, 3702, 3703, 2610, 3711, TEMC 4802, SED 4800, ECIS 2629, ECIS 3700, all preclinical experience courses, student teaching, and student teaching seminar.
- If the program is concerned regarding teacher candidate performance in the preclinical experience, as determined by CPAST criteria, the program
Completing a Bachelor of Science in Education without Licensure:

Preclinical Application with Request for Graduation Evaluation

- Preclinical application is completed on TaskStream. Directions are available on the BCOE website.
- Preclinical application and graduation evaluation request must be submitted one year prior to the intended preclinical semester no later than:
  - September 1—for Fall preclinical
  - February 1—for Spring preclinical
- Preclinical candidates are screened for eligibility based on GPA and course completion.

Student Teaching:

- Prerequisites:
  - BCOE Upper Division and Senior status,
  - Overall 2.75 GPA
  - Minimum of 2.67 GPA in subject area curriculum and professional education courses with no grade less than a “C” (each computed individually),
  - Passage of OAE test(s) and ACTFL tests for foreign language.
- Instructions for completing the Student Teaching Application and Forms are available on BCOE website. The application and forms must be completed and printed from the BCOE website and submitted to the BCOE Office of Student Services no later than:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- The application and forms must be completed and submitted to the BCOE Office of Student Services no later than:
  - September 1—to Student Teach the following Spring Semester
  - February 1—to Student Teach the following Fall Semester
- Teacher candidates who choose to graduate without licensure must apply for approval in the BCOE Office of Student Services.
- Teacher candidates graduating without licensure must take TCED 4830 (3 SH) capstone in place of student teaching.

Graduation Process:

- Apply for graduation during the first three weeks of the semester you plan to graduate. Graduation evaluation must be completed in advance of application for graduation.

Completing a Bachelor of Science in Education without Licensure:

- Teacher candidates who choose to graduate without licensure must apply for approval in the BCOE Office of Student Services.
- Once approved, teacher candidates graduating without licensure must take TCED 4830 (3 SH) capstone in place of student teaching.

**Year 1**

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<th>Course Title</th>
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<td>Success Seminar</td>
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<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 or Writing 1 with Support</td>
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<td>EDFN 1501</td>
<td>Introduction to Education</td>
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<td>Natural Science with Lab</td>
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<td>MUHL 2621</td>
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**Total Semester Hours** 17-18

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<td>PSYC 1560</td>
<td>General Psychology</td>
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<td>MATH 2665</td>
<td>Foundations of Middle School Mathematics 2</td>
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<td>Turning Points in United States History 1 or Turning Points in United States History 2</td>
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<td>Reading Application in Content Areas Middle Years</td>
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<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<td>Algebra/Geometry for Middle School Teachers</td>
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<td>Characteristics and Needs of Children and Youth with Mild/Moderate Disabilities</td>
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<td>COUN 1587</td>
<td>Introduction to Health and Wellness in Contemporary Society</td>
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<td>ENGL 2651</td>
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<td>PSYC 3709</td>
<td>Psychology of Education</td>
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<td>Phonics in Reading Instruction</td>
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<td>ENGL 3703 or ENGL 3704</td>
<td>Literature for Young Children or Literature for Middle School Readers</td>
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**Year 3**

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<td>SPED 4828</td>
<td>Education for Children and Youth with Emotional Behavior Needs</td>
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<td>Assessment and Referral of Exceptional Children and Youth for the Intervention Specialist</td>
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<td>TERG 3702</td>
<td>Developmental Reading Instruction</td>
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<td>Intervention and Remediation of Receptive/Expressive Language Dysfunction</td>
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<td>SPED 4853</td>
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**Year 4**

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<td>SPED 4851</td>
<td>Transition Planning, Social Skill Development and Health-Related Issues</td>
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<td>SPED 4835</td>
<td>Classroom Management for Exceptional Children and Youth</td>
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<td>SPED 4854</td>
<td>Cross-Curricular Interventions</td>
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<td>Service Coordination, Collaboration, and Consultation for Students with Special Needs</td>
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<tr>
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<td>Supervised Student Teaching: Mild Moderate/Disabilities</td>
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<td>SPED 4869</td>
<td>Student Teaching Seminar for Special Education</td>
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**Total Semester Hours** 122-123
Endorsements

Early Childhood Generalist (Grades 4-5)
The Department of Teacher Education and Leadership Studies offers the Early Childhood Generalist (Grades 4-5) endorsement. This endorsement is approved by the State of Ohio and may be added to an existing Reading Endorsement (Grades K-12). This endorsement requires the passage of the OAE Elementary Education subtest 1 – 018 with a passing score of 220 or higher & subtest 2 – 019 with a passing score of 220 or higher or the respective content area test.

The endorsement is offered during summer semesters through web-based instruction. A 50-hour field experience is required. Passage of the OAE 018 (subtest 1) and 019 (subtest 2) examinations are required.

EMCE 5801 Early Childhood Generalist Science
EMCE 5802 Early Childhood Generalist Math
EMCE 5803 Early Childhood Generalist Language Arts
EMCE 5804 Early Childhood Generalist the Arts, Health and Fitness
EMCE 5805 Early Childhood Generalist Social Studies

Middle Childhood Generalist (Grades 4-5)
The Department of Teacher Education and Leadership Studies offers the Middle Childhood Generalist Endorsement. This endorsement is approved by the State of Ohio and may be added to an existing Middle Childhood License. An endorsement to teach grades 4 – 6 in one or more additional areas can be added to a present Middle Childhood License. This endorsement also requires the passage of the OAE Elementary Education subtest 1 – 018 with a passing score of 220 or higher & subtest 2 – 019 with a passing score of 220 or higher or the respective content area test.

Approved English Courses
ENGL 3704 Literature for Middle School Readers
ENGL 3739 Writing for Middle School Teachers
Score of 220 on the OAE Middle Grades Language Arts (028).

Approved Mathematics Courses
MATH 1564 Foundations of Middle School Mathematics 1
MATH 2665 Foundations of Middle School Mathematics 2
Score of 220 on the OAE Middle Grades Math test (030).

Approved Science Courses
GEOL 1504 The Dynamic Earth
PHYS 2607 Physical Science for Middle and Secondary Education
Score of 220 on the OAE Middle Grades Science test (029).

Reading Endorsement (K-12)
The Department of Teacher Education and Leadership Studies offers the Reading Endorsement (Grades K-12). This endorsement is approved by the State of Ohio and can be added to any standard teaching license or certificate. This endorsement also requires the passage of the OAE (Ohio Assessments for Educators) Reading – Sub test I (038) passing score of 220 or higher; and OAE Reading - Sub test II (039) passing score of 220 or higher. Candidates must purchase a TaskStream account.

TERG 6923 Literacy and Phonics Instruction
TERG 6924 Content Literacy
TERG 6926 Reading and Language Arts Assessment
TERG 6927 Practicum: Coaching for Effective Literacy Instruction
TERG 6928 Practicum: Case Study in Reading and Language Arts

TESOL (Teaching English to Speakers of Other Languages) (Grades K-12)
The Department of Teacher Education and Leadership Studies offers the Teaching English to Speakers of Other Languages (TESOL) Endorsement in cooperation with the Department of English. This can be added to any teaching license. This endorsement requires the passage of OAE (Ohio Assessments for Educators) #21 English to Speakers of Other Languages, passing score of 220 or higher. The 18 s.h. of required coursework includes:

ENGL 2651 Introduction to Language
Or:
ENGL 3755 Principles of Linguistic Study
ENGL 4850 Sociolinguistics
ENGL 4851 Language Acquisition
ENGL 4852 Linguistics and Literacy
ENGL 4856 TESOL Methods
ENGL 4857 TESOL Practicum

Department of English and World Languages

Welcome
Majors in the Department of English and World Languages share a love of language; they read while waiting for a scheduled appointment and write in a journal or commonplace book; they enjoy word games and puzzles and notice unusual uses of words or phrases and incorrect applications of grammar rules. They wish to visit places, observe characters, and absorb the language created in all kinds of texts. The Department of English and World Languages welcomes those who seek diversity, who understand the limits of their own worldviews and who seek ways to understand others. Language is a foundational human bond. We come to language and literature and linguistics and writing to wonder, to understand, to inspire, and to work. You are welcome here.

Our department’s mission is educate citizens to use language effectively and to appreciate the history, diversity, and complexity of their culture. The department seeks to improve students’ abilities to read and write, to listen attentively and to communicate, to think analytically and creatively, to appreciate the aesthetics of literature, and to value diverse cultures. Department faculty teach purposefully, leading investigations of writing, language, literature, and culture, work informed by research and scholarly activity, service to the University, and broad-based community involvement.

For information, contact Jeff Buchanan, Department Chair: jmbuchanan@ysu.edu

Academic Programs
The Department of English and World Languages offers:

- Bachelor of arts (BA) degrees in: Italian, Spanish, English, and Professional and Technical Writing
• In collaboration with the Department of Teacher Education and Leadership Studies, Bachelor of science (BS) degrees in: Italian Education, Spanish Education, and Integrated Language Arts.
• Academic Minors in: French, Italian, Spanish, English Studies, British and American Literature, Professional and Technical Writing, Linguistics, and Creative Writing.
• Masters of Arts (MA) degrees in: English and English with a Professional and Technical Writing focus.
• A Master of Arts (MFA) in Creative Writing.
• Graduate certificates in: Literature for Children and Young Adults, the Teaching of Writing, Teaching English to Speakers of Other Languages (TESOL), and Professional and Technical Writing.
• Coursework in American Sign Language, Arabic, Chinese, German, Latin, Ancient Greek, and Film Studies.

**Academic Activities**

Students interested in French, Italian, or Spanish, including non-majors and non-minors, are invited to participate in the French, Italian, or Spanish Club. Club activities include regular meetings, conversation hours, organized dinners, and attendance at various events such as Opera Western Reserve and the Cleveland International Film Festival.

The Department strongly encourages all students to study abroad.

**Chair**

Jeffrey M. Buchanan, Ph.D., Chair

**Professor**

Corey E. Andrews, Ph.D., Professor
Diana Awad-Scrocco, Ph.D., Associate Professor
Kevin E. Ball, Ph.D., Professor
Christopher Barzak, M.F.A., Professor
Laura L. Beadling, Ph.D., Associate Professor
Jennifer Behney, Ph.D., Associate Professor
Philip Sean Brady, Ph.D., Professor
Maria Conti Maravillas, Ph.D., Assistant Professor
Suzanne Diamond, Ph.D., Professor
Timothy Francisco, Ph.D., Professor
Jay L. Gordon, Ph.D., Associate Professor
Stacy Graber, Ph.D., Associate Professor
Lucas D. Hardy, Ph.D., Associate Professor
Alena Kirova, Ph.D., Assistant Professor
Ndinzi Masagara, Ph.D., Associate Professor
Diana Q. Palardy, Ph.D., Professor
Nicole Pettitt, Ph.D., Assistant Professor
John E. Sarkissian, Ph.D., Professor
Dolores V. Sisco, Ph.D., Assistant Professor
Stephanie A. Tingley, Ph.D., Professor
Gina Villamizar, Ph.D., Associate Professor

**Lecturer**

Russell Brickey, Ph.D., Lecturer
Ronald Fields, M.A., Lecturer
Robyn Gaier, M.A., Lecturer
Jacklynn Mercer, M.A., Lecturer
Alexis Mingrone, Ph.D., Lecturer
Cynthia Vigliotti, M.A., Senior Lecturer

**Minors**

- BA in English (p. 198)
- BA in Professional and Technical Writing (PTW) (p. 199)
- BA in Italian (p. 208)
- BA in Spanish (p. 208)

**Certificates**

- French Certificate (p. 212)
- Italian Certificate (p. 212)
- Spanish Certificate (p. 212)

**Programs in English**

In English, a student can earn a BA with a focus on British and American Literature or in Professional and Technical Writing. Minors are also available in English Studies, British and American Literature, Professional and Technical Writing, Linguistics, and Creative Writing.

Literature majors learn to demonstrate an attentiveness to textual detail; they are able to explain the relationship between texts and their broader literary, historical, and cultural contexts; literature majors analyze ways in which forms, culture, and identity influence both the production of texts and the critical reception of those texts; as writers, majors arrange and place arguments, using appropriate source material and clear, organized language. Students are well-positioned for careers that build on these skills—analysis, communication, writing, collaboration—and for graduate school in English, Law, and/or Business.

Professional and Technical Writing majors learn to produce clear, effective, well-edited writing to serve the needs of various public and professional audiences; they learn to adapt to working environments that are changing rapidly due to advances in information technology; and they are able to...
ENGL 1509 Academic English for Non-native Speakers 3 s.h.
Development of writing and reading comprehension skills in English through outlining, summary, and response. Emphasis on vocabulary, main idea, detail, and conclusion in assigned reading and writing. Entrance on basis of English as a Second Language placement test. Must be taken until a grade of C or better is achieved. May be repeated once with a different topic. Does not count toward a degree. Grading is ABC/NC.

ENGL 1512 English Conversation for Non-native Speakers 1 s.h.
Development of conversation skills. Focus on oral-aural fluency, idiomaticity, extracting and organizing information, and situation-oriented communication strategies. Emphasis on meaningful topics relevant to the students’ pursuit of their academic goals. Entrance on basis of English as a Second Language placement test. Does not count toward a degree. Grading is ABC/NC.

ENGL 1540 Introduction to College Writing 3 s.h.
Practice in adapting college-level writing conventions, organizational strategies, and revision and editing techniques to a variety of writing tasks. Focus on responding to written texts in ways that demonstrate expressive, analytical, and evaluative thinking. Students divide their time between regular classrooms and computer classrooms, where they have the opportunity to acquire and develop basic word-processing and electronic communication skills. Does not count toward the graduation requirement in composition. Open to students on the basis of Composition and Reading Test results. Grading is ABC/NC. Does not count toward the graduation requirement in composition and does not count toward a degree.

ENGL 1541 Introduction to College Writing 3 s.h.
Intensive individualized instruction in written communication and college-level reading practices in a computer-assisted environment. Open to students based upon ACT/SAT/Composition Placement Test results. Grading for English 1541 is ABC/NC. Does not count toward the graduation requirement in composition and does not count toward a degree. Next course in sequence must be the 4 semester hours ENGL 1549 Writing 1 with Support.
Prereq.: Placement by ACT/SAT test results, as noted in course description.

ENGL 1549 Writing 1 with Support 4 s.h.
Strategies for writing as a means of critical inquiry, with focus on writing processes and on the roles of writer, audience, and purpose as they affect writing. Students divide their time between regular and computer classrooms, where they acquire and develop basic word-processing and electronic communication skills. This four-credit hour version of Writing One emphasizes development of college-level writing conventions, organizational strategies, and revision and editing techniques. Grading is ABCDF, but students must earn a "C" or better to satisfy the General Education requirement and continue to ENGL 1551 or ENGL 1551H.
Prereq.: Appropriate ACT/SAT scores or completion of English 1541.

ENGL 1550 Writing 1 3 s.h.
Strategies for writing as a means of critical inquiry, with focus on writing processes and on the roles of writer, audience, and purpose as they affect writing. Students divide their time between regular and computer classrooms, where they acquire and develop basic word-processing and electronic communication skills. Open to students on the basis of Composition and Reading Test results or successful completion of ENGL 1509 or ENGL 1539 or ENGL 1540. Grading is ABCDF but must earn a "C" or better to satisfy the General Education requirement and continue to ENGL 1551 or ENGL 1551H.

ENGL 1550C Corequisite Support for Writing 1 1 s.h.
This course is intended to provide corequisite support for students requiring remediation in writing while they are concurrently enrolled in English 1550. Emphasis will be placed on the development of college-level writing conventions, organizational strategies, and revision and editing techniques. Open to students based upon ACT/SAT scores or Composition Placement Test results. Grading is ABCDF but must earn a "C" or better to satisfy the General Education requirement and continue to ENGL 1551 or ENGL 1551H. Does not count toward a degree.
Coreq.: ENGL 1550.

ENGL 1550H Honors Writing 1 3 s.h.
Strategies for writing as a means of critical inquiry, with focus on writing processes and on the roles of writer, audience, and purpose as they affect writing. Writing assignments treat a broad range of ideas, especially in response to challenging readings. Stylistic experimentation is encouraged so that each student can develop a distinctive writing style. Students divide their time between regular classrooms and computer classrooms, where they have the opportunity to acquire and develop basic word-processing and electronic communication skills. Grading is ABCDF but must earn a "C" or better to satisfy the General Education requirement.
Prereq.: Eligibility for the Honors Program and permission on the basis of ACT/SAT scores or Composition Placement Test.

ENGL 1551 Writing 2 3 s.h.
Practice in writing with emphasis on the process of investigation: exploration of topics, formulation of tentative theses, collection of data from suitable primary and secondary sources, and clear and appropriate presentation of the results of these inquiries. Students divide their time between regular and computer classrooms, where they have the opportunity to perform online research. Grading is ABCDF but must earn a C or higher to satisfy the General Education requirement. Prereq.: ENGL 1549 with a grade of "C" or better or ENGL 1550 with a grade of "C" or better or ACT/SAT scores or Composition and Reading Test results.

ENGL 1551H Honors Writing 2 3 s.h.
Research on a topic of some depth, conducted independently and focused on a single project that results in a substantial investigative paper. Students divide their time between regular and computer classrooms, where they have the opportunity to perform online research. Grading is ABCDF but must earn a C or higher to satisfy the General Education requirement.
Prereq.: Admission to the Honors Program and ENGL 1550H with a grade "C" or better.

ENGL 1560 Language, Ethnicity, and Gender 3 s.h.
Basic understanding of relations between ethnicity, gender, and speech style, distinguishing linguistics, sociolinguistics, and women's issues. Examination of topics such as language, socialization, oral vs written language, language and class membership, and intra-ethnicity variation in Urban Vernacular English.

ENGL 1590 Introduction to Literature 3 s.h.
Literary works from various genres and periods by culturally diverse authors. Students learn literary terms to analyze and interpret literature. A major goal is to improve critical thinking skills by relating literature to film, music, art and/or live performance.
Gen Ed: Arts and Humanities.

ENGL 2601 Intermediate Writing for Teachers 3 s.h.
A course to increase proficiency in critical reading and writing. Designed specifically for students entering the College of Education; reading, discussions and writing assignments emphasize current issues in Education. Assignments allow students to practice, collaboratively and individually, the kinds of writing used in teaching. Does not count toward the English major.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 2610 World Literature 3 s.h.
A survey of nonwestern literatures, emphasizing their cultural, historical, literary, and global contexts.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.
ENGL 2615  Science Fiction and Fantasy Literature  3 s.h.
Works from the science fiction and fantasy genres are read and discussed
critically to promote understanding and enjoyment of reading.
Gen Ed: Arts and Humanities.

ENGL 2617  Women in Literature  3 s.h.
Examination of works by and about women, drawn primarily from American
and English writers.
Gen Ed: Arts and Humanities, Domestic Diversity, Social and Personal
Awareness.

ENGL 2618  American Literature and Diversity  3 s.h.
Writers and works in relation to the diversity of American culture, politics,
lifestyles, and social movements.
Gen Ed: Arts and Humanities, Domestic Diversity, Social and Personal
Awareness.

ENGL 2620  African Literature  3 s.h.
Survey of African literature, with emphasis on experiences, styles, and themes
of African writers, as well as the effects of African literature on cultural
course discourses throughout the world.
Gen Ed: Arts and Humanities.

ENGL 2623  Literature, Work, and Class  3 s.h.
Analysis of literary representations of work and class, with special attention to
working class authors, subjects, and styles. Focuses on social and historical
influences, as well as the impact of social changes and new knowledge upon
working-class literature.

ENGL 2630  LGBTQIA Literature  3 s.h.
Explores literature by LGBTQIA authors, focusing on the goals to expose the
vibrancy and range of the literature of "queerness."
Gen Ed: Arts and Humanities, Domestic Diversity, Social and Personal
Awareness.

ENGL 2631  Mythology in Literature  3 s.h.
Introductory study of myths, chiefly classical, with some attention to their
origins and cultural significance, and of literary works, both classical and
modern, in which myths are used.
Gen Ed: Arts and Humanities.

ENGL 2646  Introduction to Fiction Writing  3 s.h.
Examination and application of narrative techniques and conventions
designed to introduce the basic elements of writing fiction.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 2647  Introduction to Poetry Writing  3 s.h.
Examination and application of poetic techniques and conventions designed
to introduce the basic elements of writing poetry.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 2651  Introduction to Language  3 s.h.
Introduction to language principally for prospective teachers, with emphasis
on the nature and function of language and its history, variations, and
acquisition.
Prereq.: Completion of ENGL 1551 with grade "C" or better.
Gen Ed: Domestic Diversity, Social Science, Social and Personal Awareness.

ENGL 2665  Introduction to Film Study  3 s.h.
Introduction to film as a medium of artistic expression. Technical aspects of
film and the relationship of film to other media and to society.
Gen Ed: Arts and Humanities.

ENGL 2670  Literary Study  3 s.h.
Gateway course for English majors. Content to include key terms, strategies
for reading, interpretation, research, and the conventions for assessing and
using sources.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 2673  Literature for Young Children  3 s.h.
Study of the development of children's literature, giving the prospective
elementary teacher criteria for evaluating books for children. Required of all
elementary education candidates.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3704  Literature for Middle School Readers  3 s.h.
Study of fiction and nonfiction genres for students in the middle school
grades, including characters and authors from various cultures and ethnicities.
Required of middle childhood reading and language arts majors.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3705  Young Adult Literature  3 s.h.
Study of literature for and about adolescents and of related topics, including
young adults as readers, critical standards for evaluation, and the use of
adolescent literature in secondary schools.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3706  Introduction to Literary Theory  3 s.h.
Provides an introduction to literary theory and criticism for English majors,
emphasizing the history and application of critical approaches to literature.
By reading core works in literary theory, students will learn application of
theoretical approaches to various texts.
Prereq.: ENGL 1551 grade of "C" or higher.

ENGL 3710  British Literature 1  3 s.h.
Beginnings to the Enlightenment. Students read a selection of British
literature, emphasizing literary history and written analysis.
Prereq.: ENGL 3700 or concurrent with ENGL 3700.

ENGL 3711  British Literature 2  3 s.h.
From Romanticism to the Present. Students read a selection of British
literature, emphasizing literary history and written analysis.
Prereq.: ENGL 3700 or concurrent with ENGL 3700.

ENGL 3712  American Literature 1  3 s.h.
Colonial period to 1865. Examine works from a range of American authors
and genres drama, fiction, poetry, short stories, novels, and non-fiction essays
within their cultural, historical, and literary contexts.
Prereq.: ENGL 3700 or concurrent with ENGL 3700.

ENGL 3713  American Literature 2  3 s.h.
1865 to present. Examine works from a range of American authors and genres
drama, fiction, poetry, short stories, and non-fiction essays within their cultural,
historical, and literary contexts.
Prereq.: ENGL 3700 or concurrent with ENGL 3700.

ENGL 3715  Graphic Novels as Literature  3 s.h.
Considers graphic novels as literature representing an increasingly wide range
of cultural experiences. Both comics theory and a range of graphic narratives,
including non-fiction, memoir, superhero, history, crime/true crime, etc., are
explored.
Prereq.: ENGL 1551.

ENGL 3730  Teaching Language Arts  3 s.h.
Introduces middle school language arts teacher candidates to discussions
about the teaching of writing and language and the development of methods
of teaching reading, writing, and language.
Prereq.: ENGL 1551 with a grade of "C" or better.

ENGL 3732  Images of Women  3 s.h.
An examination through language, literature, folklore, film and myth of the
ways in which the meanings and representations of women have been
constructed and implemented in Western culture. Introduces key concepts and
theoretical frameworks drawn from current scholarship about women.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3737  Popular Culture Studies  3 s.h.
Introduction to critical issues and approaches to popular culture through
the study of various texts from literature, television, film, advertising, popular
music, and computer cyberculture.
Prereq.: ENGL 1551 with grade of "C" or better.

ENGL 3738  Selected Topics in World Literature  3 s.h.
A comparative examination of a genre, historical period, or literary movement.
May be repeated once with different topic.
Prereq.: Completion of ENGL 1551 with grade "C" or better.
ENGL 3739  Writing for Middle School Teachers  3 s.h.
Designed to strengthen proficiency in writing, with emphasis on issues related to the teaching of English in middle school. Limited to students seeking middle childhood licensure with a concentration in Language Arts.
Prereq.: Admission to upper division status in the Beeghly College of Education.

ENGL 3740  Advanced Writing  3 s.h.
Designed to strengthen proficiency in essay writing, with emphasis on the development of ideas, analysis of style, clarity of thought and expression, editing, and proofreading.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3741  Advanced Writing for Teachers  3 s.h.
Designed to strengthen proficiency in writing, with emphasis on issues relating to the teaching of English. Limited to students seeking English or Integrated Language Arts certificates.
Prereq.: Admission to upper-division status in the College of Education.

ENGL 3742  Business Writing  3 s.h.
Introduction to the elements of business writing: audience and task analysis; techniques of gathering, interpreting, and presenting business research; appropriate conventions, genres, styles, and formats; elements of collaborative, global, and electronic communication; and application of computer technology to document design and production.
Prereq.: C or better in ENGL 1551.

ENGL 3743  Professional and Technical Writing  3 s.h.
Introduction to the elements of professional and technical writing, including audience and task analysis; techniques of gathering, interpreting, and presenting information; appropriate conventions, styles, and formats; elements of collaborative, global, and electronic communication; and application of computer technology to the design and production of documents.
Prereq.: ENGL 1551 with grade "C" or better.

ENGL 3744  Proposal and Report Writing  3 s.h.
Application of rhetorical strategies and principles of design to the preparation of texts in two specific professional writing genres: the proposal (such as grant and research proposals) and the report (such as technical, feasibility, and other kinds of reports).
Prereq.: ENGL 1551 with grade "C" or better.

ENGL 3745  Writing for Online Environments  3 s.h.
Analysis of the rhetoric of online discourse and exploration of techniques for producing documents meant to be accessed online. Students will use web design applications and other social media platforms for producing their own online writing.
Prereq.: ENGL 1551 with grade "C" or better.

ENGL 3746  Fiction Writing Workshop  3 s.h.
Supervised workshop in which students develop their individual narrative skills, styles, and talents. May be repeated once.
Prereq.: ENGL 2646.

ENGL 3747  Poetry Writing Workshop  3 s.h.
Supervised workshop in which students develop their individual poetic skills, styles, and talents. May be repeated once.
Prereq.: ENGL 2647.

ENGL 3748  Screenwriting  3 s.h.
Examination and application of story concepts, theme and character development, structure, page design, and formatting. Students will develop their own story, treatment, and screenplay. May be repeated once.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3749  Writing the Youth Novel  3 s.h.
Examination and application of elements associated with novels for young readers. Students will develop their own narrative skills, styles, and talents in a supervised workshop. May be repeated once.
Prereq.: ENGL 2646.

ENGL 3750  Language and Culture  3 s.h.
Language structure as an instrument in human behavior and social institutions with emphasis on cross-cultural and intercultural communication.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3751  Readings in Professional and Technical Writing  3 s.h.
Analysis of technical and professional documents and texts that examine issues including clarity, choice of language, audience, tone, and writing in specific genres.
Prereq.: ENGL 1551 with grade "C" or better.

ENGL 3755  Principles of Linguistic Study  3 s.h.
Survey of elements of linguistic structure, methods of analysis and description, theoretical models, and the role of language in human affairs.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3757  Development of the English Language  3 s.h.
Sounds, vocabulary, grammar, and usage, from old to contemporary English.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 3765  Film Genres  3 s.h.
Study of a particular type of film, such as comedy, western, documentary, or science fiction. May be repeated once with a different topic.
Prereq.: ENGL 3710, ENGL 3711, ENGL 3712, ENGL 3713 or ENGL 2665.

ENGL 3770  American Literature in Historical Perspective  3 s.h.
Poetry, prose, drama, and other forms of literary expression examined within the context of a specific aspect of American social, intellectual, and cultural history. May be repeated once with different topic.
Prereq.: ENGL 3700 or concurrent.
Cross-listed: AMER 3770.

ENGL 3780  American Genres  3 s.h.
Study of a particular type of literature (e.g., short story, autobiography, or film) as it developed in the United States. May be repeated once with a different topic.
Prereq.: ENGL 3700 or concurrent.

ENGL 3790  Selected Topics in Multicultural Studies  3 s.h.
Concentrated study of discourse in English, primarily literature, from cultures other than the dominant or majority culture of a given society. Designed to develop awareness and sensitivity to issues of difference, power, and cross-cultural perspectives, and to address and facilitate students' multicultural literacy. May be repeated once with different topic.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

ENGL 4831  British Genres, Circles, and Movements  3 s.h.
Study of a literary genre, a group of writers who shared a cultural context or who influenced one another's work, or a trend or development in literature. May be repeated once with different topic.
Prereq.: ENGL 3700 with a grade of "C" or higher.

ENGL 4838  Major Figures in British Literature  3 s.h.
Concentrated study of the works of a British writer who has contributed significantly to the literary tradition. May be repeated once with different topic.
Prereq.: ENGL 3700 with a grade of "C" or higher.

ENGL 4843  Advanced Professional and Technical Writing  3 s.h.
Advanced instruction in professional and technical writing, expanding on knowledge and skills developed in ENGL 3742 or 3743, with emphasis on the creation and design of complex documents using tools such as Microsoft Word and Adobe InDesign.
Prereq.: ENGL 3742 or ENGL 3743 with grade "C" or better.

ENGL 4849  Professional and Technical Editing  3 s.h.
Study of the skills needed to make appropriate decisions about the content, grammar, mechanics, style, organization, and format of scholarly, trade, journalistic, and other professional publications, including newsletters and electronic publications. Topics include stages in the publishing process, proofreading, hard-copy versus online editing, mechanical and substantive editing, and the use of house and press styles.
Prereq.: Completion of ENGL 3742 or ENGL 3743 with grade "C" or better.
ENGL 4850 Sociolinguistics 3 s.h.
An investigation of the relationship between language and society. Includes
discussion of dialects and standard language, language planning, linguistic
identity, multi- and bilingualism, class, gender, ethnicity, and social interaction.
Prereq.: ENGL 2651 or ENGL 3755.

ENGL 4851 Language Acquisition 3 s.h.
A study of research on the learning of first and second languages. Topics
include developmental sequences, learner variables, critical periods and
conditions for learning, and the roles of input and interaction. The course is
designed for those planning to teach languages. Listed also as FNLG 4851.
Prereq.: ENGL 2651 or ENGL 3755.

ENGL 4852 Linguistics and Literacy 3 s.h.
Examination of the linguistic, social, and cultural dimensions of reading and
writing and their impact on literacy acquisition and performance in language.
Prereq.: ENGL 2651 or ENGL 3755.

ENGL 4855 Advanced Linguistics 3 s.h.
In-depth study of selected issues in contemporary linguistic theory. Especially
recommended for students pursuing advanced studies or a minor in linguistics
or planning graduate studies.
Prereq.: ENGL 2651 or ENGL 3755.

ENGL 4856 TESOL Methods 3 s.h.
Introduction to teaching English as a Second Language (ESL), including
reading, writing, listening, and speaking. Focus on using communicative
methods with non-native speakers.
Prereq.: ENGL 4856.

ENGL 4857 TESOL Practicum 3 s.h.
Supervised teaching in English as a Second Language (ESL) program.
Additionally, weekly seminar attendance required.
Prereq.: ENGL 4857.

ENGL 4858 English Grammar 3 s.h.
Descriptions and analysis of English language structure.
Prereq.: ENGL 2651 or ENGL 3755.

ENGL 4859 Selected Topics in Discourse 3 s.h.
Study in depth of a specific topic such as stylistics, semantics, or rhetoric. May
be repeated once with different topic.
Prereq.: ENGL 3740, ENGL 3741, or ENGL 3755 as appropriate to topic.

ENGL 4860 The Medieval World 3 s.h.
British literature from the Anglo-Saxon period to the age of Chaucer, presented
in the context of the period's history and culture.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4862 Themes in American Literature 3 s.h.
In-depth examination of a significant theme in American literature and culture
through analysis of prose, poetry, drama, and/or film from different historical
periods.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4864 American Literary Conversations 3 s.h.
Study of two or more American writers whose work is related. Focuses on
writers who influenced each other, who wrote during the same period, or who
explored similar themes or used similar literary styles.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4865 Selected Topics in Film 3 s.h.
An important aspect of or approach to film not covered in other courses. May
be repeated once with different topic.
Prereq.: ENGL 3710, ENGL 3711, ENGL 3712, ENGL 3713, or ENGL 2665.

ENGL 4871 The Black Experience in American Literature 3 s.h.
Study of African-American literature that explores the intersections between
race, gender, and class in America, with emphasis on black minority culture,
experience, and perspective.
Prereq.: ENGL 3700 with a grade of "C" or higher.

ENGL 4875 The Black Experience in American Literature 3 s.h.
Study of African-American literature that explores the intersections between
race, gender, and class in America, with emphasis on black minority culture,
experience, and perspective.
Prereq.: ENGL 3700 with a grade of "C" or higher.

ENGL 4877 Character Interactions 3 s.h.
Explore the ways in which characters interact and develop in literature.
Prereq.: ENGL 3700 with grade of "C" or better.

ENGL 4880 Senior Seminar 3 s.h.
Study of literature, linguistics, or criticism and theory requiring a long, critical,
research-based paper.
Prereq.: ENGL 3700 and at least one of the following ENGL 3710, ENGL 3711,
ENGL 3712 or ENGL 3713.

ENGL 4881 Shakespeare and His World 3 s.h.
Study of Shakespeare's works along with an exploration of the artistic and
social forces that shaped his writing.
Prereq.: ENGL 3700 with a grade of "C" or higher.

ENGL 4882 The English Renaissance 3 s.h.
Study of British literature from 1500 to 1660 and the social, cultural, and
artistic forces that influenced it.
Prereq.: ENGL 3700 with a grade of "C" or higher.

ENGL 4886 Restoration and Eighteenth Century British Literature 3 s.h.
Study of British literature of the period and the social, cultural, and artistic
forces that influenced it.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4887 The Romantic Period 3 s.h.
Study of British literature from 1776 to 1832 and the social, cultural, and
artistic forces that influenced it.
Prereq.: ENGL 3700 with grade of "C" or better.

ENGL 4890 Senior Seminar 3 s.h.
Study of literature, linguistics, or criticism and theory requiring a long, critical,
research-based paper.
Prereq.: ENGL 3700 and at least one of the following ENGL 3710, ENGL 3711,
ENGL 3712 or ENGL 3713.

ENGL 4891 Individual Study 1-3 s.h.
Exploration of a topic in English studies. An academic project or written
report produced in consultation with an English instructor is required. May be
repeated with different topics for a maximum of 3 s.h.
Prereq.: Senior standing in English and department permit.

ENGL 4892 Nineteenth Century British Literature Studies 3 s.h.
Nineteenth-century writers, works, and themes read in the context of the
period's culture and history.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4895 Early Twentieth Century British Studies 3 s.h.
Literature read in the context of the period's literary movements, culture, and
history.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4896 British Literature from World War II to the Present 3 s.h.
Literature read in the context of the period's literary movements, culture, and
history.
Prereq.: ENGL 3700 with grade of "C" or higher.

ENGL 4897 English Internship 1-3 s.h.
Supervised experience directed by an English faculty member and a
designated representative of a participating organization. Enrollment is contingent
upon the availability of internships. Students are selected on the
basis of qualifications including GPA, courses taken, recommendations and an
interview.
Prereq.: 12 hours of English, junior or senior standing, and a department
permit.

ENGL 4898 Professional and Technical Writing Internship 1-3 s.h.
Supervised work-and-learning experiences in professional communication
under the direction of a faculty member and an employee of a participating
firm. Internship encompasses 10 to 20 hours of student time each week.
Enrollment is contingent upon the availability of internships. Students are
selected on the basis of their current resume, brief statement of interest,
and faculty recommendations. May be repeated with the approval of the
department chairperson.
Prereq.: ENGL 3742 or ENGL 3743 with grade "C" or better.
ENGL 4899 Professional and Technical Writing Senior Project 3 s.h.
Capstone experience for the Professional Writing and Editing major.
Individualized research, analysis, development, and oral presentation of a project that incorporates audience-appropriate writing, design, and/or editing in a usable high-quality product. Taken during the student's final undergraduate year.
Prereq.: ENGL 3743 with grade "C" or better.
Gen Ed: Capstone.

Bachelor of Arts in English

The English literature major requires 42 semester hours. This curriculum sheet includes general education requirements and the minor. You'll take electives to complete the minimum 120 sh for graduation.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

| ENGL 1550 | Writing 1 | 3-4 |
| ENGL 1549 | Writing 1 with Support | |
| ENGL 1551 | Writing 2 | 3 |
| CMST 1545 | Communication Foundations | 3 |
| Mathematics requirement (met with MATH 2623) | 3 |
| Arts and Humanities (6 s.h.) | 6 |
| Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) | 6-7 |
| Social Science (6 s.h.) | 6 |
| Social and Personal Awareness (6 s.h.) | 6 |

Foreign Language Requirement

| FNLG 1550 | Elementary Foreign Language | 4 |
| FNLG 2600 | Intermediate Foreign Language | 4 |

Multicultural Studies

Choose one: ENGL 2617 (Women in Literature), 2618 (American Literature and Diversity), 2620 (African Literature), 3732 (Images of Women), 3790 (Sel. Topics in Multicultural Studies), 4850 (Sociolinguistics), or 4871 (Black Experience in American Literature)

Major Requirements

| ENGL 3700 | Literary Study | 3 |
| ENGL 3706 | Introduction to Literary Theory | 3 |
| ENGL 3710 | British Literature 1 | 3 |
| ENGL 3711 | British Literature 2 | 3 |
| ENGL 3712 | American Literature 1 | 3 |
| ENGL 3713 | American Literature 2 | 3 |
| ENGL 4890 | Senior Seminar (Capstone) | 3 |

Language Studies

| ENGL 3755 | Principles of Linguistic Study | 3 |
| ENGL 3757 | Development of the English Language | |

British Literature Studies

Select one of the following:

| ENGL 4830 | Major Figures in British Literature |
| or ENGL 4831 | British Genres, Circles, and Movements |
| or ENGL 4860 | The Medieval World |
| or ENGL 4881 | Shakespeare and His World |
| or ENGL 4882 | The English Renaissance |
| or ENGL 4886 | Restoration and Eighteenth Century British Literature |
| or ENGL 4887 | The Romantic Period |
| or ENGL 4892 | Nineteenth Century British Literature Studies |

or ENGL 4895 Early Twentieth Century British Studies
or ENGL 4896 British Literature from World War II to the Present

American Literature Studies

Select one of the following:

| ENGL 3770 | American Literature in Historical Perspective |
| or ENGL 3780 | American Genres |
| or ENGL 4862 | Themes in American Literature |
| or ENGL 4864 | American Literary Conversations |
| or ENGL 4871 | The Black Experience in American Literature |

Select one additional British or American Literatures Studies Course from the above list (The course must cover a period before 1900.)

Advanced Writing

Select one of the following:

| JOUR 3716 | Magazine Publishing |
| or JOUR 3717 | Editorial and Opinion Writing |
| or JOUR 3721 | Journalism Workshop |
| or ENGL 3740 | Advanced Writing |
| or ENGL 3741 | Advanced Writing for Teachers |
| or ENGL 3743 | Professional and Technical Writing |
| or ENGL 3744 | Proposal and Report Writing |
| or ENGL 3746 | Fiction Writing Workshop |
| or ENGL 3747 | Poetry Writing Workshop |
| or ENGL 3748 | Screenwriting |

Popular Culture Studies

Select one of the following:

| ENGL 3750 | Language and Culture |
| or ENGL 3765 | Film Genres |
| or ENGL 3737 | Popular Culture Studies |
| or ENGL 4865 | Selected Topics in Film |

Minor

18

Electives - to meet 120 hours

18

Total Semester Hours

120-123

This plan is a road-map to graduation, but you have many options in how you manage your schedule. Speak to a department advisor for help creating a plan that will help you to achieve your professional goals (call 330-941-3414 or email the literature coordinator listed on the department website).

Year 1

<table>
<thead>
<tr>
<th>S.H.</th>
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<tbody>
<tr>
<td>Spring</td>
</tr>
<tr>
<td>SS XXXX</td>
</tr>
<tr>
<td>SPA XXXX</td>
</tr>
<tr>
<td>ENGL 1551</td>
</tr>
<tr>
<td>CMST 1545</td>
</tr>
<tr>
<td>FNLG 2600</td>
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<tr>
<td>Semester Hours</td>
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</table>

| Fall |
| YSU 1500 | Success Seminar | 1 |
| or NS XXXX | 3 |
| or AH XXXX | 3 |
| or ENGL 1550 | Writing 1 | 3-4 |
| or ENGL 1549 | Writing 1 with Support | |
| or MATH 2623 | Quantitative Reasoning | 3 |
| or FNLG 1550 | Elementary Foreign Language | 4 |
| Semester Hours | 17-18 |

Year 2

| Spring |
| ENGL 3710 | British Literature 1 | 3 |
ENGL 3712 American Literature 1 3
Minor course 3
SS 3
SPA 3

Semester Hours 15
Fall
ENGL 3700 Literary Study 3
ENGL 3755 Principles of Linguistic Study 3
or ENGL 3757 or Development of the English Language 3
ENGL 26XX, 37XX, or 48XX: Multicultural Studies 3
Minor XXXX 3
NS/Lab 4

Semester Hours 16
Year 3
Spring
ENGL 48XX: British Literature 3
ENGL 37XX or 48XX American Literature 2
ENGL or JOUR 37XX Advanced Writing 3
ENGL 37XX or 48XX Popular Culture Studies 2
MINOR: Upper-division 3
ELECT 3

Semester Hours 18
Fall
ENGL 3711 British Literature 2 3
ENGL 3713 American Literature 2 3
Minor course: Upper-division 3
Social Science 3
Arts and Humanities 3

Semester Hours 15
Year 4
Spring
ENGL 4890 Senior Seminar 3
Minor: Upper-division 3
Elective 3
Elective 3

Semester Hours 12
Fall
ENGL 36XX or 48XX Upper-Div Amer or Brit Lit 1 OR 2 3
Minor: Upper-division 3
Elective 3
Elective 2

Semester Hours 11
Total Semester Hours 120-121

1 For the upper-division British Literature requirement, pick one from this list: 4830 (Major Figures in British Literature), 4831 (British Genres, Circles, and Movements), 4860 (The Medieval World), Shakespeare and His World), 4882 (The English Renaissance), 4886 (Restoration and Eighteenth Century British Literature), 4887 (The Romantic Period), 4892 (Nineteenth Century British Literature Studies), 4895 (Early 20th Century British Studies), or 4896 (British Literature--WW II to the Present).
2 For the upper-division American Literature requirement, pick one from the following list: 3770 (American Literature in Historical Perspective), 3780 (American Genres), 4862 (Themes in American Literature), 4864 (American Literary Conversations), 4871 (The Black Experience in American Literature).
3 For the Advanced Writing requirement, pick one of the following courses (all of these require completion of Comp 2 as a prerequisite, and some have additional prerequisites—check the course descriptions): JOUR 3716 (Intro to Magazine Journalism), 3717 (Editorial and Opinion Writing), JOUR 3721L (Journalism Workshop); ENGL 3740 (Advanced Writing), 3741 (Advanced Writing for Teachers), 3743 (Prof and Tech Communication), 3744 (Proposal and Report Writing), 3746 (Fiction Writing Workshop), 3747 (Poetry Writing Workshop), 3748 (Screenwriting), 3849 (Writing the Youth Novel)
4 For the Popular Culture Studies requirement, take one of the following: 3750 (Language and Culture), 3765 (Film Genres), 3737 (Popular Culture Studies), 4865 (Selected Topics in Film).

Learning Outcomes
The Department of English and World Languages has established the following learning outcomes for students completing the English major:

- English majors will deploy varied strategies for engaging with literature on the levels of words, appropriate parts of texts, whole texts, contexts, and criticism.
- English majors will be able to situate texts in the appropriate literary, historical, and cultural contexts.
- English majors will be able to analyze how the production and reception of language and literature are influenced by differences of form, culture, and identity.
- English majors will effectively present and discuss ideas about literature and language in a manner that is appropriate for the situation.

Bachelor of Arts in Professional and Technical Writing (PTW) Overview
The PTW program is designed to help you learn to write, edit, and design electronic and paper documents for businesses, organizations, and institutions. Successful PTW majors demonstrate many kinds of knowledge and skills valued in the field. As a PTW major, you'll analyze existing works—from web sites and manuals to policies and proposals—as well as produce your own original materials for your professional portfolio. Specifically, you will

- learn to produce clear, effective, well-edited writing that serves the needs and interests of various audiences;
- learn to adapt to working environments that are changing rapidly—especially in terms of information technology;
- develop a specialty in a specific field or type of working environment in which you'd like to put your PTW knowledge and skills to use.

Majors in PTW enjoy successful careers as writers, editors, and document developers. Our graduates have gotten work as professional and technical writers at Ohio companies like Radcom and Rockwell Automation, as grant writers at regional nonprofits, as marketing and public relations specialists around the nation, and as teachers, trainers and consultants in the field. Many have continued their studies in graduate programs as well.

A major in professional and technical writing requires 63 semester hours, distributed as follows:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>UNIVERSITY REQUIREMENT - STUDENT SUCCESS</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>Intro to Honors</td>
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<tr>
<td>General Education Requirements</td>
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</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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</table>
Bachelor of Arts in Professional and Technical Writing (PTW)

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1549 or ENGL 1549 Writing 1 with Support</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>MATH 2623 Quantitative Reasoning</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Arts &amp; Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>3</td>
<td></td>
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<tr>
<td>Foreign Language 1550</td>
<td>4</td>
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</table>

| Semester Hours | 17-18 |

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Fall</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3743 Introduction to Public, Professional and Technical Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 3744 Proposal and Report Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PTW Prof Area crs. (1 of 6)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Req. II (1 of 4)</td>
<td>3</td>
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</tr>
<tr>
<td>Natural Science/lab</td>
<td>4</td>
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</tbody>
</table>

| Semester Hours | 16 |

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Fall</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 4843 Advanced Professional and Technical Writing</td>
<td>3</td>
<td></td>
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<tr>
<td>PTW Prof Area crs. (3 of 6)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PTW Prof Area crs. (4 of 6)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>37/48xx Req. II (2 of 4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Arts &amp; Humanities</td>
<td>3</td>
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</table>

| Semester Hours | 15 |

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Fall</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37xx or 48xx Req. II (4 of 4)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>37xx or 48xx Req. III (2 of 2)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 3740 Advanced Writing</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

| Elective 37/48xx | 3 |
| Elective | 3 |

| Semester Hours | 15 |
Minor in British and American Literature

The English Department has established the following learning outcomes for students completing the professional and technical writing major:

1. PTW majors will define, state, and achieve a specific purpose and target audience, recognizing and adjusting for budgetary and timeline constraints.
2. PTW majors will create and implement appropriate formats and designs for specific audiences and purposes.
3. PTW majors will use a problem-solving approach and a variety of resources to investigate a problem, acquire and assess information, and organize it effectively.
4. PTW majors will design documents professionally, using appropriate technological resources, software and hardware, as well as appropriate elements of design.
5. PTW majors will evaluate others’ writing, accept and implement the recommendations of others in revision and editing. They will edit appropriately, using conventional grammar, spelling, and diction, and they will apply the appropriate style guide.

Learning Outcomes

PTW majors will evaluate others’ writing, accept and implement the recommendations of others in revision and editing. They will edit appropriately, using conventional grammar, spelling, and diction, and they will apply the appropriate style guide.

Minor in Creative Writing

Take six of the following courses. Note that ENGL 2646 (Fiction) and 2647 (Poetry) are prerequisites for the upper-division workshops in fiction and poetry.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 2646</td>
<td>Introduction to Fiction Writing</td>
<td>3</td>
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<tr>
<td>ENGL 2647</td>
<td>Introduction to Poetry Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3740</td>
<td>Advanced Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3746</td>
<td>Fiction Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3747</td>
<td>Poetry Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3748</td>
<td>Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3749</td>
<td>Writing the Youth Novel</td>
<td>3</td>
</tr>
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</table>

Total Semester Hours 18

Minor in English Studies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3700</td>
<td>Literary Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following literature survey courses:

- ENGL 3710 British Literature 1
- ENGL 3711 British Literature 2
- ENGL 3712 American Literature 1
- ENGL 3713 American Literature 2

Select one upper-division American Literature OR upper-division British Literature from the following:

**American Literature Courses**

- ENGL 3770 American Literature in Historical Perspective
- ENGL 3780 American Genres
- ENGL 4862 Themes in American Literature
- ENGL 4864 American Literary Conversations
- ENGL 4871 The Black Experience in American Literature

**British Literature Courses**

- ENGL 4830 Major Figures in British Literature
- ENGL 4831 British Genres, Circles, and Movements
- ENGL 4860 The Medieval World
- ENGL 4881 Shakespeare and His World
- ENGL 4882 The English Renaissance
- ENGL 4886 Restoration and Eighteenth Century British Literature
- ENGL 4887 The Romantic Period
- ENGL 4892 Nineteenth Century British Literature Studies
- ENGL 4895 Early Twentieth Century British Studies
- ENGL 4896 British Literature from World War II to the Present

Select one other literature course from the following:

- ENGL 2610 World Literature
- ENGL 2617 Women in Literature
- ENGL 2618 American Literature and Diversity
- ENGL 2620 African Literature

Notes:

1. The Professional Area requires 18SH in various areas; GER courses may be counted toward it.
2. Req. II includes 12 upper-division SH in non-PTW classes, including linguistics, journalism, and creative writing.
3. Req. III includes any two literature courses in the English department, 2600-level or higher.

Upper-division hours = 48
ENGL 2631  Mythology in Literature
ENGL 2665  Introduction to Film Study
ENGL 3703  Literature for Young Children
ENGL 3704  Literature for Middle School Readers
ENGL 3705  Young Adult Literature
ENGL 3738  Selected Topics in World Literature
ENGL 3765  Film Genres
ENGL 4865  Selected Topics in Film

Select two additional English Studies courses – one course from any two of the following groups:

**Group 1: Language, Writing, and Culture**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 2651</td>
<td>Introduction to Language</td>
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<tr>
<td>ENGL 3755</td>
<td>Principles of Linguistic Study</td>
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</tr>
<tr>
<td>ENGL 3740</td>
<td>Advanced Writing</td>
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<tr>
<td>ENGL 3790</td>
<td>Selected Topics in Multicultural Studies</td>
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</table>

**Group 2: Journalism**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>JOUR 2622</td>
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<tr>
<td>JOUR 2626</td>
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<td></td>
</tr>
<tr>
<td>JOUR 3716</td>
<td>Magazine Publishing</td>
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<tr>
<td>JOUR 3717</td>
<td>Editorial and Opinion Writing</td>
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<tr>
<td>JOUR 3723</td>
<td>Advanced Journalism Editing and Design</td>
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<tr>
<td>JOUR 4824</td>
<td>Press Law and Ethics</td>
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**Group 3: Creating Writing**

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 2646</td>
<td>Introduction to Fiction Writing</td>
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<tr>
<td>ENGL 2647</td>
<td>Introduction to Poetry Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 3748</td>
<td>Screenwriting</td>
<td></td>
</tr>
<tr>
<td>ENGL 3746</td>
<td>Fiction Writing Workshop</td>
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</tr>
<tr>
<td>ENGL 3747</td>
<td>Poetry Writing Workshop</td>
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</table>

**Group 4: Technical and Professional Communication**

<table>
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<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ENGL 3743</td>
<td>Professional and Technical Writing</td>
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</tr>
<tr>
<td>ENGL 3744</td>
<td>Proposal and Report Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 4849</td>
<td>Professional and Technical Editing</td>
<td></td>
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</tbody>
</table>

**Total Semester Hours**

18

## Minor in Linguistics

The minor in linguistics requires completion of a minimum of 18 semester hours including ENGL 3755 Principles of Linguistic Study. Contact Nicole Pettitt, Linguistic Program Director, for further details.

**Required Courses**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ENGL 3755</td>
<td>Principles of Linguistic Study</td>
<td>3</td>
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</table>

**Group I**

Select at least two courses:

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<thead>
<tr>
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<tbody>
<tr>
<td>ENGL 3750</td>
<td>Language and Culture</td>
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<tr>
<td>ENGL 3757</td>
<td>Development of the English Language</td>
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<tr>
<td>ENGL 4850</td>
<td>Sociolinguistics</td>
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<tr>
<td>ENGL 4855</td>
<td>Advanced Linguistics</td>
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<tr>
<td>ENGL 4858</td>
<td>English Grammar</td>
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<tr>
<td>FRNC 3710</td>
<td>Applied French Phonetics</td>
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<td>FRNC 4885</td>
<td>French Conversation and Composition Capstone</td>
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<tr>
<td>SPAN 3724</td>
<td>Spanish Pronunciation</td>
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<td>SPAN 3735</td>
<td>Advanced Spanish Grammar and Composition</td>
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<tr>
<td>SPAN 3736</td>
<td>Introduction to Spanish Linguistics</td>
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<tr>
<td>SPAN 5855</td>
<td>Topics in Spanish Language and Linguistics</td>
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**Additional Coursework for Groups I and II**

Select at least 9 s.h. from the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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**World Languages and Cultures**

### Programs in World Languages

Students can major in Italian and Spanish. Students learn to read and write, speak and listen; they also are introduced to how the language works and functions linguistically. Study also includes an introduction to the literatures and cultures of Italian- and Spanish-speaking peoples and regions.

Specifically, students will develop a cultural understanding and appreciation of the history and of those areas in which the target language is (or was) spoken. Spanish and Italian majors will be able to read and understand a variety of materials written in the target language. They will be able to understand the target language when spoken in a variety of contexts. In addition, majors will be able to carry on a conversation, deliver a speech, and compose in the target language.

Minors are also achievable in Spanish and Italian as well as in French. Coursework is also offered in American Sign Language, Arabic, Chinese, German, Latin, and Ancient Greek. Students who wish to meet their General Education Requirement in Foreign Language may do so in any of those languages.

### Learning Outcomes

The learning outcomes for all modern language courses, the level of expectation depending on the level of the course, are as follows:

- Cultural Understanding: The student will develop an understanding and appreciation of the history and culture of those areas in which the target language is (or was) spoken.
- Reading Comprehension: The student will be able to read and understand a variety of materials written in the target language. These materials may include but are not limited to: novels, plays, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).
- Listening Comprehension: The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to conversation with another individual or individuals, formal lectures, song and film.
- Oral Expression: The student will be able to carry on a conversation and deliver a speech in the target language.
- Written Expression: The student will be able to compose in the target language.

### American Sign Language

**ASL 1550  Elementary American Sign Language 1  2 s.h.**

Introduction to the fundamentals of American Sign Language (ASL), including vocabulary, syntax, and grammatical non-manual signals. Introduction to the history and culture of the Deaf Community. Grading is ABC/NC.
ASL 1551  Elementary American Sign Language 2  2 s.h.
Continuation of ASL 1550 with further development of vocabulary, syntax and grammatical non-manual signals and additional study of the history and culture of the Deaf Community.
Prereq.: ASL 1550.

ASL 1552  Intermediate American Sign Language 1  2 s.h.
Continuation of ASL 1551 with further development of vocabulary, syntax and grammatical non-manual signals and additional study of the history and culture of the Deaf Community.
Prereq.: ASL 1551.

ASL 2600  Intermediate American Sign Language 2  2 s.h.
Continuation of ASL 1552 with further development of vocabulary, syntax and grammatical non-manual signals and additional study of the history and culture of the Deaf Community.
Prereq.: ASL 1552.

Arabic

ARBC 1550  Elementary Arabic  4 s.h.
Intensive training in understanding, speaking, reading, and writing Arabic. Geography and daily life, as well as appreciation of the culture of Arabic speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

ARBC 2600  Intermediate Arabic  4 s.h.
A continuation of ARBC 1550 with intensive training in understanding, speaking, reading, and writing Arabic. Geography and daily life, as well as appreciation of the culture of Arabic speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: ARBC 1550.

ARBC 2605  Advanced Intermediate Arabic 1  3 s.h.
A continuation of ARBC 2600 with intensive training in understanding, speaking, reading, and writing Arabic. Geography and daily life, as well as appreciation of the culture of Arabic speakers, are studied.
Prereq.: ARBC 2600.

ARBC 2606  Advanced Intermediate Arabic 2  3 s.h.
A continuation of ARBC 2605 with intensive training in understanding, speaking, reading, and writing Arabic.
Prereq.: ARBC 2605.

ARBC 3701  Advanced Arabic 1  3 s.h.
A continuation of ARBC 2606 with intensive training in understanding, speaking, reading, and writing Arabic.
Prereq.: ARBC 2606.

ARBC 3702  Advanced Arabic 2  3 s.h.
A continuation of ARBC 3701 with intensive training in understanding, speaking, reading, and writing Arabic.
Prereq.: ARBC 3701.

ARBC 3799  Study Abroad in Arabic  1-15 s.h.
An individually-arranged program of foreign study in the Arabic language. Programs can be of two general types: (1) trips or residential programs sponsored by consortial universities, and (2) independent academic coursework through institutions with which YSU does not have a consortial agreement. A written statement detailing the student’s academic plan must be approved by the Chair of Foreign Languages and the Dean of CLASS prior to the trip. May be repeated up to a total of 15 s.h., if specific course content changes. Note: study abroad generally requires about one year’s advance planning.
Prereq.: Sophomore abroad generally requires about one year’s advance planning.

Chinese

CHIN 1550  Elementary Chinese  4 s.h.
Intensive training in understanding, speaking, reading, and writing Chinese. Geography and daily life, as well as appreciation of the culture of Chinese speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

CHIN 2600  Intermediate Chinese  4 s.h.
Continuation of CHIN 1550 with intensive training in understanding, speaking, reading, and writing Chinese. Geography and daily life, as well as appreciation of the culture of Chinese speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: CHIN 1550.

CHIN 2605  Advanced Intermediate Chinese 1  3 s.h.
A continuation of CHIN 2600 with intensive training in understanding, speaking, reading, and writing Chinese. Geography and daily life, as well as appreciation of the culture of Chinese speakers, are studied.
Prereq.: CHIN 2600 or placement test.

CHIN 2606  Advanced Intermediate Chinese 2  3 s.h.
A continuation of CHIN 2605 with intensive training in understanding, speaking, reading, and writing Chinese.
Prereq.: CHIN 2605.

CHIN 3701  Advanced Chinese 1  3 s.h.
A continuation of CHIN 2606 with intensive training in understanding, speaking, reading, and writing Chinese.
Prereq.: CHIN 2606.

CHIN 3702  Advanced Chinese 2  3 s.h.
A continuation of CHIN 3701 with intensive training in understanding, speaking, reading, and writing Chinese.
Prereq.: CHIN 3701.

CHIN 3799  Study Abroad in Chinese  1-15 s.h.
An individually-arranged program of foreign study in the Chinese language. Programs can be of two general types: (1) trips or residential programs sponsored by consortial universities, and (2) independent academic coursework through institutions with which YSU does not have a consortial agreement. A written statement detailing the student’s academic plan must be approved by the Chair of Foreign Languages and the Dean of CLASS prior to the trip. May be repeated up to a total of 15 s.h., if specific course content changes. Note: study abroad generally requires about one year’s advance planning.
Prereq.: Sophomore abroad generally requires about one year’s advance planning.

Foreign Languages

FNLG 1550  Elementary Foreign Language  4 s.h.
Intensive training in understanding, speaking, reading, and writing a foreign language not regularly offered. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

FNLG 2600  Intermediate Foreign Language  4 s.h.
Intensive training in understanding, speaking, reading, and writing a foreign language not regularly offered. Geography and daily life, as well as appreciation of the culture of the speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: FNLG 1550 in the same language.

FNLG 2601  Advanced Intermediate Foreign Language 1  3 s.h.
Intensive training in understanding, speaking, reading, and writing a foreign language not regularly offered. Geography and daily life, as well as appreciation of the cultures of speakers of the language, are studied.
Prereq.: FNLG 2600 in the same language.
**French**

**FRNC 1550 Elementary French  4 s.h.**
Intensive training in understanding, speaking, reading, and writing French. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

**FRNC 2600 Intermediate French  4 s.h.**
Intensive training in understanding, speaking, reading, and writing French; knowledge of the natural and cultural features of French-speaking countries and regions. Assignments in the Language Learning and Resource Center (LLRC).

**FRNC 2605 Advanced Intermediate French  3 s.h.**
Advanced training in understanding, speaking, reading, and writing French; knowledge of the natural and cultural features of French-speaking countries and regions. Assignments in the Language Learning and Resource Center (LLRC).

**FRNC 2606 Intensive French Review  3 s.h.**
Intensive review of basic French speaking and writing language skills. Grammatical structures and vocabulary in context.

**FRNC 3701 Service Learning in French  1-2 s.h.**
Using the French language to engage in community service or an internship. Completion of a journal written in French and detailing the experience is required. May be repeated up to 4 s.h.

**FRNC 3717 Advanced French Conversation  3 s.h.**
Development of oral expression through discussion of current topics in the context of French and Francophone culture, politics, and economics. Expansion of vocabulary.

**FRNC 3725 Francophone Literature and Culture  3 s.h.**
A study of major works of French literature through its history, placed in the cultural context which helped produce them.

**FRNC 3736 Introduction to French Linguistics  3 s.h.**
Examination of basic concepts and issues of modern French linguistic theory. Emphasis is on sociolinguistics with attention also to phonology, morphology, syntax and pragmatics.

**FRNC 3740 French for Business and Communication  3 s.h.**
Development of oral and written communication in business and other practical situations. Business practices in French-speaking countries.

**FRNC 3750 French Civilization and Culture  3 s.h.**
A study of contemporary French civilization and culture, focusing on what the French consider typical of their character, as exemplified by their traditions, magazines, films, and heroes. Readings and class work in French.
FRNC 3780 French Composition and Conversation Review 3 s.h.
Review course emphasizing impromptu conversations and in-class essay writing. Intended for students who need additional coursework to achieve the level of Advanced Low on the ACTFL Oral Proficiency Interview and/or the ACTFL Writing Proficiency Test. May not be counted toward the major. Grading is CR/NC.
Prereq.: 15 s.h. in French at the 3700 level or above and permission of Chair.
FRNC 3799 Study Abroad in French 1-15 s.h.
An individually-arranged program of foreign study in the French language. Programs can be of two general types: (1) trips or residential programs sponsored by consortial universities, and (2) independent academic coursework through institutions with which YSU does not have a consortial agreement. A written statement detailing the student’s academic plan must be approved by a member of the Foreign faculty, the chair of Foreign Languages and the dean of CLASS prior to the trip. Credit toward fulfillment of requirements for the French major will be determined by the chair of Foreign Languages and not the French faculty. May be repeated up to a total of 15 s.h., if specific course content changes. Note: study abroad generally requires about one year’s advance planning.
Prereq.: Sophomore status and approval of the chair of Foreign Languages.
FRNC 4885 French Conversation and Composition Capstone 3 s.h.
Capstone course emphasizing impromptu conversations and in-class essay writing. Students must achieve a level of Advanced Low on both the ACTFL Oral Proficiency Interview and the ACTFL Writing Proficiency Test.
Prereq.: 15 s.h. in French at the 3700 level or above and permission of Chair.
FRNC 4886 French Composition and Conversation Capstone 3 s.h.
Capstone course emphasizing impromptu conversations and in-class essay writing. Student must achieve a level of Intermediate High on both the ACTFL Oral Proficiency Interview and the ACTFL Writing Proficiency Test.
Prereq.: 15 s.h. in French at the 3700 level or above and permission of Chair.

**German**

GRMN 1550 Elementary German 4 s.h.
Intensive training in understanding, speaking, reading, and writing German. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Students should achieve an intermediate-low level of proficiency. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.
GRMN 2600 Intermediate 4 s.h.
Intensive training in understanding, speaking, reading, and writing German; knowledge of geography and daily life as well as appreciation of the cultures of German speakers. Students should achieve an intermediate-mid level of proficiency. Assignments in the LLRC.
Prereq.: Placement test or GRMN 1550.
GRMN 2605 Advanced Intermediate 3 s.h.
Intensive training in understanding, speaking, reading, and writing German; knowledge of geography and daily life as well as appreciation of the cultures of German speakers. By the end of the course the students should achieve an intermediate-high level of proficiency. Assignments in the LLRC.
Prereq.: Placement test or GRMN 2600.
GRMN 6901 Special Topics in German 3 s.h.
Arranged course for graduate students only.
Prereq.: Two 4800-level courses in German with grade of "B" or better.

**Greek**

GRK 1550 Elementary Ancient Greek 4 s.h.
Introduction to Ancient Greek with emphasis on those aspects of grammar most essential for developing the ability to read Greek. Translation of simple Ancient Greek texts into English. Grading is ABC/NC.

GRK 2600 Intermediate Ancient Greek 4 s.h.
Continuation of GRK 1550 with emphasis on more complex aspects of Ancient Greek grammar. Translation of more advanced Ancient Greek texts, including some authentic passages.
Prereq.: Placement test or GRK 1550.
GRK 2603 Directed Reading in Ancient Greek 1 3 s.h.
Reading of selections from an Ancient Greek author or genre with emphasis on translation. Review of Ancient Greek grammar and introduction of some advanced grammatical constructions not covered in Ancient Greek 1550 or 2600. May be repeated once if topic is different.
Prereq.: Permission of Chair and either placement test or GRK 2600.
GRK 3753 Directed Reading in Ancient Greek 2 3 s.h.
Reading of selections from an Ancient Greek author or genre with emphasis on translation and interpretation of text; review of Ancient Greek grammar, introduction of relevant modern scholarship, and writing of evaluative essays. May be repeated once if topic is different.
Prereq.: GRK 2603 and permission of Chair.
GRK 4883 Directed Reading in Ancient Greek 3 3 s.h.
Reading of selections from an Ancient Greek author or genre with emphasis on translation and interpretation of text. Review of Ancient Greek grammar. Writing of a research paper. May be repeated once if topic is different.
Prereq.: GRK 3753 and permission of Chair.

**Hebrew***

HBRW 1550 Elementary Hebrew 4 s.h.
Beginning training in understanding, speaking, reading, and writing Hebrew. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.
HBRW 2600 Intermediate Hebrew 4 s.h.
Intensive training in understanding, speaking, reading, and writing Hebrew; knowledge of geography and daily life as well as appreciation of the culture of Hebrew speakers. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: Placement test or HBRW 1550.
HBRW 2605 Advanced Intermediate Hebrew 3 s.h.
Reading and discussion in Hebrew of selections from the Hebrew Scripture.
Prereq.: Placement test or HBRW 2600.
HBRW 3706 Readings in Hebrew Scripture 3 s.h.
Reading and discussion in Hebrew of selections from the Hebrew Scriptures. May be repeated once if the texts studied are different.
Prereq.: HBRW 2605.
HBRW 3799 Study Abroad in Hebrew 1-15 s.h.
An individually-arranged program of foreign study in the Hebrew language. Programs can be of two general types: (1) trips or residential programs sponsored by consortial universities, and (2) independent academic coursework through institutions with which YSU does not have a consortial agreement. A written statement detailing the student’s academic plan must be approved by a member of the Hebrew faculty, the chair of Foreign Languages and the dean of CLASS prior to the trip. Credit toward fulfillment of requirements for the Hebrew major will be determined by the chair of Foreign Languages and not the Hebrew faculty. May be repeated up to a total of 15 s.h., if specific course content changes. Note: study abroad generally requires about one year’s advance planning.
Prereq.: Sophomore status and approval of the chair of Foreign Languages.

* Currently only HBRW 1550 and HBRW 2600 are regularly offered.

**Italian**

ITAL 1505 Elementary Italian 1 4 s.h.
Intensive training in understanding, speaking, reading, and writing Italian. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.
ITAL 1506 Elementary Italian 2 4 s.h.
Intensive training in understanding, speaking, reading, and writing Italian; knowledge of geography and daily life as well as appreciation of the cultures of Italian speakers. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: Placement test or ITAL 1550 or ITAL 1505.

ITAL 1550 Elementary Italian 4 s.h.
Intensive training in understanding, speaking, reading, and writing Italian. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

ITAL 2600 Intermediate Italian 4 s.h.
Intensive training in understanding, speaking, reading, and writing Italian; knowledge of geography and daily life as well as appreciation of the cultures of Italian speakers. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: Placement test or ITAL 1550.

ITAL 2605 Advanced Intermediate Italian 4 s.h.
Intensive training in understanding, speaking, reading and writing Italian; knowledge of geography and daily life as well as appreciation of the cultures of Italian speakers.
Prereq.: Placement test or ITAL 2600.

ITAL 2607 Intermediate Italian 1 4 s.h.
Intensive training in understanding, speaking, reading and writing Italian; knowledge of geography and daily life as well as appreciation of the cultures of Italian speakers.
Prereq.: Placement test or ITAL 1506 or ITAL 2600.

ITAL 2608 Intermediate Italian 2 4 s.h.
Intensive training in understanding, speaking, reading and writing Italian; knowledge of geography and daily life as well as appreciation of the cultures of Italian speakers.
Prereq.: Placement test or ITAL 2600 or ITAL 2600.

ITAL 2610 Introduction to Italian Film 1 s.h.
Analysis, written and oral, of Italian films presented in conjunction with FNGL 2610.
Prereq.: ITAL 1506 or ITAL 2600.
Coreq.: FNGL 2610 or FNGL 2610H.

ITAL 3701 Service Learning in Italian 2 s.h.
Using the Italian language to engage in community service or an internship. Completion of a journal written in Italian and detailing the experience is required. May be repeated up to 4 semester hours.
Prereq.: Approval of Department Chair; and ITAL 1506 or ITAL 2600 placement test.

ITAL 3702 Intensive Italian Review 4 s.h.
Intensive training in understanding, speaking, reading, and writing Italian. Grammatical structures and vocabulary in context.
Prereq.: ITAL 2605.

ITAL 3726 Italian Phonetics and Phonology 4 s.h.
Current theory in Italian phonetics and phonology aimed at improving the pronunciation and intonation of second language learners. Attention given to a comparison of the Italian and English phonological systems and the phonological comparisons of standard and regional dialects of Italian. Regular in-class discussion, linguistic analyses, and practice on phonological data sets, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3735 Italian Civilization and Culture 4 s.h.
A condensed study of the geography, history, literature and social heritage of Italy, from the fall of the Roman Empire to the present. Regular in-class discussion and occasional in-class writing assignments, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3736 Italian Linguistics 4 s.h.
Basic concepts and issues of modern Italian linguistic theory in the areas of phonology, morphology, syntax, semantics, and pragmatics. Emphasis is placed on sociolinguistics, dialectology and Italian dialect endangerment. Regular in-class discussion and occasional in-class writing assignments, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3740 Survey of Italian Literature 1 4 s.h.
Introduction to Italian literature from the 14th Century to the Renaissance through representative selections of key literary figures. Theoretical and critical approaches to help interpret texts. Regular in-class discussion and occasional in-class writing assignments, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3741 Survey of Italian Literature 2 4 s.h.
Introduction to Italian literature from the Enlightenment to the present through representative selections of key literary figures. Theoretical and critical approaches to help interpret texts. Regular in-class discussion and occasional in-class writing assignments, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3750 Contemporary Italian Literature 4 s.h.
A study of contemporary Italian literature and its movements and innovations across a variety of genres, including fiction, memoir, poetry, song lyrics, rap and journalism. Featuring the works of Ammaniti, Baricco, Benni, Consoli, Khouma, Mazzucco, Severgnini and Virzi. Regular in-class discussion and occasional in-class writing assignments, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3755 Advanced Italian Conversation and Composition 4 s.h.
Development of written expression through a systematic study of Italian morphology, sentence structure, and usage applied to a variety of written discourse styles such as description, narration, and exposition. Development of oral expression through discussion of current topics in the context of Italian culture, politics, and economics. Expansion of vocabulary. Laboratory work according to individual needs.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3760 Literary Representations of 19th Century Italy 4 s.h.
A study of literary representations of 19th century Italy and the Italians from the pre-Risorgimento era through the turn of the century, with concentration on the works of Foscolo, Manzoni, Verga and di Lampadusa. Regular in-class discussion and occasional in-class writing assignments, all in Italian.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3770 Special Topics in Italian 4 s.h.
Study of an author, genre, movement or historical period in Italian literature, culture or history. May be repeated if the topic changes.
Prereq.: Either ITAL 2607 and ITAL 2608; or ITAL 3702.

ITAL 3780 Italian Composition and Conversation Review 3 s.h.
Review course emphasizing impromptu conversations and in-class essay writing. Intended for students who need additional coursework to achieve the level of Advanced Low on the ACTFL Oral Proficiency Interview and/or the ACTFL Writing Proficiency Test. May not be counted toward the major. Grading CR/NC.
Prereq.: 16 s.h. in Italian at the 3700 level or above and permission of Chair.

ITAL 3798 Study Abroad in Sicily 4 s.h.
A structured but individualized program of study at the Culturforum Italian Language School in Cefalu, Sicily.
Prereq.: either ITAL 3702 or both ITAL 2605 and permission of Chair.
ITAL 3799 Study Abroad in Italian 1-15 s.h.
An individually-arranged program of foreign study in the Italian language. Programs can be of two general types: (1) trips or residential programs sponsored by consortial universities, and (2) independent academic coursework through institutions with which YSU does not have a consortial agreement. A written statement detailing the student's academic plan must be approved by a member of the Italian faculty, the chair of Foreign Languages and the dean of CLASS prior to the trip. Credit toward fulfillment of requirements for the Italian major will be determined by the chair of Foreign Languages and the Italian faculty. May be repeated up to a total of 15 s.h., if specific course content changes. Note: study abroad generally requires about one year's advance planning.
Prereq.: Sophomore status and approval of the chair of Foreign Languages.

ITAL 4880 Italian Conversation and Composition Capstone 4 s.h.
Capstone course emphasizing impromptu conversations and in-class essay writing. Students should achieve a level of Advanced Low on both the ACTFL Oral Proficiency Interview and the ACTFL Writing Proficiency Test.
Prereq.: 16 s.h. in Italian at the 3700 level or above and permission of Chair.
Gen Ed: Capstone.

Latin

LATN 1550 Elementary Latin 4 s.h.
Introduction to Latin, with emphasis on those aspects of grammar most essential for developing the ability to read Latin. Translation of simple Latin texts into English. Introduction to the culture of the late Roman Republic, including reading selected primary sources in English. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

LATN 2600 Intermediate Latin 4 s.h.
Continuation of Latin 1550 with emphasis on more complex aspects of Latin grammar. Translation of more advanced Latin texts, including some authentic passages.
Prereq.: Placement test or LATN 1550.

LATN 2603 Directed Reading in Latin 1 3 s.h.
Reading of selections from a Latin author or genre with emphasis on translation. Review of Latin grammar and introduction of some advanced grammatical constructions not covered in Latin 1550 or LATN 2600. May be repeated once if topic is different.
Prereq.: Placement test or LATN 2600.

LATN 3753 Directed Reading in Latin 2 3 s.h.
Reading of selections from a Latin author or genre with emphasis on translation and interpretation of text. Review of Latin grammar, introduction to relevant modern scholarship, and writing of evaluative essays. May be repeated once if topic is different.
Prereq.: LATN 2603 and permission of Chair.

LATN 4883 Directed Reading in Latin 3 3 s.h.
Reading of selections from a Latin author or genre with emphasis on translation and interpretation of text, review of Latin grammar, and writing of a research paper. May be repeated once if topic is different.
Prereq.: LATN 3753 and permission of Chair.

Spanish

SPAN 1550 Elementary Spanish 4 s.h.
Intensive training in understanding, speaking, reading, and writing Spanish. Geography and daily life, as well as appreciation of the culture of its speakers, are studied. Assignments in the Language Learning and Resource Center (LLRC). Grading is ABC/NC.

SPAN 2600 Intermediate Spanish 4 s.h.
Intensive training in understanding, speaking, reading, and writing Spanish; geography and daily life, as well as appreciation of the cultures of Spanish speakers are studied. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: Placement test or SPAN 1550.

SPAN 2605 Advanced Intermediate Spanish 3 s.h.
Review and expansion of basic Spanish language skills and cultural information. Assignments in the Language Learning and Resource Center (LLRC).
Prereq.: Placement test or SPAN 2600.

SPAN 3701 Service Learning in Spanish 1-2 s.h.
Using the Spanish language to engage in community service or an internship. Completion of a journal written in Spanish and detailing the experience is required. May be repeated up to 4 s.h.
Prereq.: Approval of Department Chair; and SPAN 2600 or placement test.

SPAN 3702 Intensive Spanish Review 3 s.h.
Further study of the Spanish language and Hispanic cultures through oral, written, and reading activities. Focus is on contextualized vocabulary and review of grammar to help students move towards a more advanced level.
Prereq.: SPAN 2605.

SPAN 3724 Spanish Pronunciation 3 s.h.
Theory and practice of Spanish pronunciation. Description of production of Spanish speech sounds and general characteristics of Spanish pronunciation. Topics on intonation. Audio-lingual practice in class and in language laboratory.
Prereq.: SPAN 3702.

SPAN 3735 Advanced Spanish Grammar and Composition 3 s.h.
A systematic study of Spanish morphology, sentence structure, and usage applied to a variety of written discourse styles such as description, narration, and exposition. Discussion of contrasts with English discourse styles, and effective grammatical use.
Prereq.: SPAN 3702.

SPAN 3736 Introduction to Spanish Linguistics 3 s.h.
Examines some of the basic concepts and issues of modern Spanish linguistic theory in the areas of phonology, morphology, syntax and pragmatics, with special emphasis on sociolinguistics.
Prereq.: SPAN 3702.

SPAN 3737 Translation and Composition 3 s.h.
Study of translation techniques, and practice in translating from Spanish into English and from English into Spanish, working with a variety of texts from the social sciences, natural sciences, and technology. Emphasis on interpretation of vocabulary and idioms.
Prereq.: SPAN 3735 or SPAN 3736.

SPAN 3740 Business Spanish 3 s.h.
Principles of effective commercial letter and report writing and oral communication in business in the Spanish-speaking world.
Prereq.: SPAN 2605.

SPAN 3755 Advanced Spanish Conversation 3 s.h.
Development of oral expression through discussion of current topics in the context of worldwide Hispanic culture, politics, and economics. Expansion of vocabulary. Laboratory work according to individual needs.
Prereq.: SPAN 3702.

SPAN 3758 Culture and Literature of Spanish-Speaking Groups in the United States 3 s.h.
Provides an overview of the significant culture and literature of the diverse Hispanic groups in the U.S. The relationship between literature and society broached through an in-depth discussion of several representative texts and their historical and political background.
Prereq.: SPAN 3702.

SPAN 3762 Culture: Spain 3 s.h.
Examination of the cultural landscape and major issues in Spanish society through the study of art, history, geography, politics, music, cinema, popular culture, and cultural groups in the various regions of Spain.
Prereq.: SPAN 3702.
SPAN 3763  Introduction to Literature: Spain  3 s.h.
Introduction to Peninsular literature through representative selections of key works of fiction, poetry and film. Theoretical and critical approaches to help the student interpret texts.
Prereq.: SPAN 3702.

SPAN 3766  Culture: Spanish-America  3 s.h.
This course examines the cultural landscape and major issues in Spanish-American society through the study of art, history, geography, politics, music, cinema, popular culture, and cultural groups in the various regions.
Prereq.: SPAN 3702.

SPAN 3767  Introduction to Literature: Spanish-America  3 s.h.
Introduction to Spanish-American literature through representative selections of key works of fiction, poetry and film. Theoretical and critical approaches to help the student interpret texts.
Prereq.: SPAN 3702.

SPAN 3780  Spanish Composition and Conversation Review  3 s.h.
Review course emphasizing impromptu conversations and in-class essay writing. Intended for students who need additional coursework to achieve the level of Advanced Low on the ACTFL Oral Proficiency Interview and/or ACTFL Writing Proficiency Test. May not be counted toward the major. Grading is CR/NC.
Prereq.: 15 s.h. in Spanish at the 3700 level or above and permission of Chair.

SPAN 3798  Study Abroad in Colombia  4 s.h.
A structured but individualized program of study at the Universidad del Norte in Barranquilla, Colombia. The course encompasses an orientation prior to the study abroad experience and the study abroad experience itself. A grade will not be given until the student returns from the study abroad.
Prereq.: SPAN 3702.

SPAN 3799  Study Abroad in Spanish  1-15 s.h.
An individually-arranged program of foreign study in the Spanish language. Programs can be of two general types: (1) trips or residential programs sponsored by consortial universities, and (2) independent academic coursework through institutions with which YSU does not have a consortial agreement. A written statement detailing the student’s academic plan must be approved by a member of the Spanish faculty, the chair of Foreign Languages and the dean of CLASS prior to the trip. Credit toward fulfillment of requirements for the Spanish major will be determined by the chair of Foreign Languages and the Spanish faculty. May be repeated up to a total of 15 s.h., if specific course content changes. Note: study abroad generally requires about one year’s advance planning.
Prereq.: Sophomore status and approval of the chair of Foreign Languages.

SPAN 4880  Spanish Conversation and Composition Capstone  3 s.h.
Capstone course emphasizing impromptu conversation and in-class essay writing. Student must achieve a level of Advanced Low on both the ACTFL Oral Proficiency Interview and the ACTFL Writing Proficiency Test.
Prereq.: 15 s.h. in Spanish at the 3700 level or above and permission of Chair.

SPAN 4881  Spanish Composition and Conversation Capstone  3 s.h.
Capstone course emphasizing impromptu conversations and in-class essay writing. Students must achieve a level of Intermediate High on both the ACTFL Oral Proficiency Interview and the ACTFL Writing Proficiency Test.
Prereq.: 15 s.h. in Spanish at the 3700 level or above and permission of Chair.

SPAN 5855  Topics in Spanish Language and Linguistics  3 s.h.
An introduction to the terminology, concepts, bibliography and current issues in Spanish language and linguistics. Major topics include phonology, morphology, semantics, syntax, applied linguistics, transformational grammar, and other topics related to language variation and society. May be repeated once when topic varies.
Prereq.: Any 3700-level SPAN course.

SPAN 5870  Topics in Spanish Literature: Spain  3 s.h.
Study of an author, a genre, or a movement in Spanish literature from 1492 to the present. The topic will be announced each time the course is offered. May be taken three times if content is not repeated.
Prereq.: SPAN 3762 or SPAN 3763.

SPAN 5885  Topics in Hispanic Literature and Film  3 s.h.
Examines the relationship between the Hispanic narrative discourse and cinema, including film adaptations of literary works. Modern social and cultural issues, as well as Hispanic self-images. May be repeated three times if content is not repeated.
Prereq.: one of SPAN 3762, SPAN 3763, SPAN 3766, SPAN 3767.
Gen Ed: Capstone.

SPAN 5890  Topics in Spanish Literature: Spanish-America  3 s.h.
Study of an author, a genre, or a movement in Latin America from 1492 to the present. The topic will be announced each time the course is offered. May be taken three times if content is not repeated.
Prereq.: SPAN 3766 or SPAN 3767.
Gen Ed: Capstone.

Bachelor of Arts in Italian

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1 The goal of ITAL 4880 Italian Conversation and Composition Capstone is to have the student achieve the level of Advanced Low on the ACTFL Oral Proficiency Interview and Writing Proficiency Test.

Study Abroad in Italy

Italian majors are encouraged to study abroad at some point in their undergraduate career. Credits earned in ITAL 3799 Study Abroad in Italian
may be counted toward the major. Students should consult with the Italian faculty and with the International Programs Office for assistance in choosing an appropriate program.

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### Learning Outcomes

The department’s learning outcomes for foreign language majors are as follows:

**CULTURAL UNDERSTANDING**

The student will develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken.

**READING COMPREHENSION**

The student will be able to read and understand a variety of materials written in the target language. These materials may include but are not limited to: novels, plays, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).

**LISTENING COMPREHENSION**

The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, formal lectures, song, and film.

**ORAL EXPRESSION**

The student will be able to carry on a conversation and deliver a speech in the target language. The student will achieve a level of Advanced Low on the Oral Proficiency Interview administered by the American Council on the Teaching of Foreign Languages.

**WRITTEN EXPRESSION**

The student will be able to compose in the target language a variety of written documents. These documents may include but are not limited to: formal and casual correspondence, essays, and creative works. The student will achieve a level of Advanced Low on the Writing Proficiency Test administered by the American Council on the Teaching of Foreign Languages.

### Bachelor of Arts in Spanish

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<tr>
<th>COURSE</th>
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<tr>
<td>ENGL 1550</td>
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<td>3-4</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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**Bachelor of Arts in Spanish**

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<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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### Major Requirements

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<td>SPAN 3702</td>
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<td>SPAN 3735</td>
<td>Advanced Spanish Grammar and Composition</td>
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<td>Advanced Spanish Conversation</td>
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<td>SPAN 3740</td>
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1. In order to complete SPAN 4880 Spanish Conversation and Composition Capstone, the student must achieve the level of Advanced Low on the ACTFL Oral Proficiency Interview and Writing Proficiency Test.

### Study Abroad in Colombia

In May and June of odd-numbered years, students who have completed SPAN 3702 Intensive Spanish Review may enroll in SPAN 3798 Study Abroad in Colombia. During this program, students live in Barranquilla, Colombia, and study Spanish at the Universidad del Norte. Contact the Department of World Languages and Cultures for additional information.

#### Year 1

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<td>MATH 2623</td>
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1. Each semester at least two of the following courses will be offered: SPAN 3724, SPAN 3736, SPAN 3735, SPAN 3740, SPAN 3755, SPAN 3758, SPAN 3762, SPAN 3763, SPAN 3766, SPAN 3767, SPAN 3798.

### Learning Outcomes

The department’s learning outcomes for foreign language majors are as follows:

**CULTURAL UNDERSTANDING**

The student will develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken.
READING COMPREHENSION
The student will be able to read and understand a variety of materials written in the target language. These materials may include but are not limited to: novels, plays, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).

LISTENING COMPREHENSION
The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, formal lectures, song, and film.

ORAL EXPRESSION
The student will be able to carry on a conversation and deliver a speech in the target language. The student will achieve a level of Advanced Low on the Oral Proficiency Interview administered by the American Council on the Teaching of Foreign Languages.

WRITTEN EXPRESSION
The student will be able to compose in the target language a variety of written documents. These documents may include but are not limited to: formal and casual correspondence, essays, and creative works. The student will achieve a level of Advanced Low on the Writing Proficiency Test administered by the American Council on the Teaching of Foreign Languages.

Minor in French

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNC 2600</td>
<td>Intermediate French</td>
<td>4</td>
</tr>
<tr>
<td>FRNC 2605</td>
<td>Advanced Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FRNC 2606</td>
<td>Intensive French Review</td>
<td>3</td>
</tr>
<tr>
<td>Select an additional 8-9 hours of French (FRNC) courses at the 3700 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>18-19</strong></td>
</tr>
</tbody>
</table>

Credit by Examination for FRNC 2600 Intermediate French
A student who places into FRNC 2605 Advanced Intermediate French and successfully completes that course or who has received credit by examination for it (e.g., AP or CLEP) may apply for credit by examination for FRNC 2600 Intermediate French, thereby expediting the attainment of a French minor.

Minor in Greek Studies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRK 2600</td>
<td>Intermediate Ancient Greek</td>
<td>4</td>
</tr>
<tr>
<td>GRK 2603</td>
<td>Directed Reading in Ancient Greek 1 (may be repeated with different content)</td>
<td>3-6</td>
</tr>
<tr>
<td>GRK 3753</td>
<td>Directed Reading in Ancient Greek 2 (may be repeated with different content)</td>
<td>6-3</td>
</tr>
<tr>
<td>GRK 4883</td>
<td>Directed Reading in Ancient Greek 3 (may be repeated with different content)</td>
<td>6-3</td>
</tr>
<tr>
<td>One of the following courses may be substituted for a Greek language course</td>
<td></td>
<td>0-4</td>
</tr>
<tr>
<td>FNLG 2660</td>
<td>Women in the Ancient World (3 semester hours)</td>
<td></td>
</tr>
<tr>
<td>HIST 3752</td>
<td>Ancient History 1 (3 semester hours)</td>
<td></td>
</tr>
<tr>
<td>LATN 1550</td>
<td>Elementary Latin (4 semester hours)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>19-20</strong></td>
</tr>
</tbody>
</table>

Minor in Italian

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITAL 1506</td>
<td>Elementary Italian 2</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 2607</td>
<td>Intermediate Italian 1</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 2608</td>
<td>Intermediate Italian 2</td>
<td>4</td>
</tr>
<tr>
<td>Select 6-8 hours of additional Italian course at the 3700 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>18-20</strong></td>
</tr>
</tbody>
</table>

Credit by Examination for ITAL 1506 Elementary Italian 2
A student who places into ITAL 2607 Intermediate Italian 1 and successfully completes that course or ITAL 2608 Intermediate Italian 2 may apply for credit by examination for ITAL 1506 Elementary Italian 2, thereby expediting the attainment of the Italian minor.

Study Abroad in Italy
Students minoring in Italian are encouraged to study abroad in Italy. Students should consult with the Italian faculty and with the International Programs Office for assistance in choosing an appropriate program.

Minor in Latin

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATN 2600</td>
<td>Intermediate Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATN 2603</td>
<td>Directed Reading in Latin 1 (may be repeated with different content)</td>
<td>3-6</td>
</tr>
<tr>
<td>LATN 3753</td>
<td>Directed Reading in Latin 2 (may be repeated with different content)</td>
<td>3-6</td>
</tr>
<tr>
<td>LATN 4883</td>
<td>Directed Reading in Latin 3 (may be repeated with different content)</td>
<td>3-6</td>
</tr>
<tr>
<td>One of the following courses may be substituted for a Latin language course</td>
<td></td>
<td>0-4</td>
</tr>
<tr>
<td>FNLG 2660</td>
<td>Women in the Ancient World (3 semester hours)</td>
<td></td>
</tr>
<tr>
<td>HIST 3753</td>
<td>Ancient History 2 (3 semester hours)</td>
<td></td>
</tr>
<tr>
<td>GRK 1550</td>
<td>Elementary Ancient Greek (4 semester hours)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>13-26</strong></td>
</tr>
</tbody>
</table>

Minor in Spanish

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPAN 2600</td>
<td>Intermediate Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 2605</td>
<td>Advanced Intermediate Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3702</td>
<td>intensive Spanish Review</td>
<td>3</td>
</tr>
<tr>
<td>Select an additional 8-9 hours of Spanish (SPAN) courses at the 3700 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>18-19</strong></td>
</tr>
</tbody>
</table>

Credit by Examination for SPAN 2600 Intermediate Spanish
A student who places into SPAN 2605 Advanced Intermediate Spanish and successfully completes that course may apply for credit by examination for SPAN 2600 Intermediate Spanish, thereby expediting the attainment of a Spanish minor.
Certificate in French

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNC 2600</td>
<td>Intermediate French</td>
<td>4</td>
</tr>
<tr>
<td>FRNC 2605</td>
<td>Advanced Intermediate French</td>
<td>3</td>
</tr>
<tr>
<td>FRNC 2606</td>
<td>Intensive French Review</td>
<td>3</td>
</tr>
<tr>
<td>FRNC 3799</td>
<td>Study Abroad in French</td>
<td>4</td>
</tr>
</tbody>
</table>

Credit by Examination for FRNC 2600 Intermediate French

A student who places into FRNC 2605 Advanced Intermediate French and successfully completes that course or who has received credit by examination for it (e.g., AP or CLEP) may apply for credit by examination for FRNC 2600 Intermediate French, thereby expediting the attainment of the French certificate.

Learning Outcomes

Cultural Understanding

The student will start to develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken. Attainment of this outcome will be facilitated by the mandated study abroad.

Reading Comprehension

The student will be able to read and understand a variety of straightforward materials written in the target language. These materials may include but are not limited to: signs, menus, schedules, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).

Listening Comprehension

The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, songs, and films.

Oral Expression

The student will be able to carry on a rudimentary conversation and deliver a short speech in the target language. The student’s discourse will be comprehensible to a native speaker of the language accustomed to dealing with non-native speakers.

Written Expression

The student will be able to compose in the target language a variety of straightforward written documents. These documents may include but are not limited to: formal and casual correspondence, short essays, summaries, and notes. The student’s writing will be comprehensible to a native speaker of the language accustomed to dealing with non-native speakers.

Certificate in Italian

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>ITAL 1506</td>
<td>Elementary Italian 2</td>
<td>4</td>
</tr>
<tr>
<td>ITAL 2607</td>
<td>Intermediate Italian 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Credit by Examination for ITAL 1506 Elementary Italian 2

A student who places into ITAL 2607 Intermediate Italian 1 and successfully completes that course or ITAL 2608 may apply for credit by examination for ITAL 1506 Elementary Italian 2, thereby expediting the attainment of the Italian certificate.

Study Abroad in Italian

In order to complete the Italian Certificate, the student must complete a 3-credit study abroad program in Italy. Students should consult with the Italian faculty and with the International Programs Office for assistance in choosing an appropriate program.

Learning Outcomes

Cultural Understanding

The student will start to develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken. Attainment of this outcome will be facilitated by the mandated study abroad.

Reading Comprehension

The student will be able to read and understand a variety of straightforward materials written in the target language. These materials may include but are not limited to: signs, menus, schedules, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).

Listening Comprehension

The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, songs, and films.

Oral Expression

The student will be able to carry on a rudimentary conversation and deliver a short speech in the target language. The student’s discourse will be comprehensible to a native speaker of the language accustomed to dealing with non-native speakers.

Written Expression

The student will be able to compose in the target language a variety of straightforward written documents. These documents may include but are not limited to: formal and casual correspondence, short essays, summaries, and notes. The student’s writing will be comprehensible to a native speaker of the language accustomed to dealing with non-native speakers.

Certificate in Spanish

<table>
<thead>
<tr>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>SPAN 2600</td>
<td>Intermediate Spanish</td>
<td>4</td>
</tr>
<tr>
<td>SPAN 2605</td>
<td>Advanced Intermediate Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3702</td>
<td>Intensive Spanish Review</td>
<td>3</td>
</tr>
<tr>
<td>SPAN 3798</td>
<td>Study Abroad in Colombia</td>
<td>4</td>
</tr>
</tbody>
</table>

Credit by Examination for SPAN 2600 Intermediate Spanish

A student who places into SPAN 2605 Advanced Intermediate Spanish and successfully completes that course may apply for credit by examination
for SPAN 2600 Intermediate Spanish, thereby expediting the attainment of a Spanish certificate.

**Study Abroad in Colombia**
A student who completes SPAN 3702 Intensive Spanish Review may then take SPAN 3798 Study Abroad in Colombia. For additional information see the BA in Spanish (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/department-foreign-languages-literatures/ba-spanish/).

**Learning Outcomes**

**Cultural Understanding**
The student will start to develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken. Attainment of this outcome will be facilitated by the mandated study abroad.

**Reading Comprehension**
The student will be able to read and understand a variety of straightforward materials written in the target language. These materials may include but are not limited to: signs, menus, schedules, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).

**Listening Comprehension**
The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to: conversation with another individual or individuals, songs, and films.

**Oral Expression**
The student will be able to carry on a rudimentary conversation and deliver a short speech in the target language. The student's discourse will be comprehensible to a native speaker of the language accustomed to dealing with non-native speakers.

**Written Expression**
The student will be able to compose in the target language a variety of straightforward written documents. These documents may include but are not limited to: formal and casual correspondence, short essays, summaries, and notes. The student's writing will be comprehensible to a native speaker of the language accustomed to dealing with non-native speakers.

**Department of Humanities and Social Sciences**

**Welcome to Humanities and Social Sciences**
Welcome to Youngstown State University and the Department of Humanities and Social Sciences (HSS). The newly formed department is comprised of the former departments of Anthropology and Sociology, Geography and Urban Studies, History, Philosophy and Religious Studies, and Politics and International Relations and also includes MA programs in History and in American Studies. Our department embodies the YSU mission of inspiring individuals, enhancing futures, and enriching lives. Graduates from the programs in this department are lifelong learners who go on to be leaders in their communities and work places, as well as attend some of the best graduate and professional programs in the world.

The programs in HSS help students develop useful and marketable skills and perspectives that are broadly applicable and always in demand despite an ever-changing world. These include critical thinking, analytical and research techniques, cogent argumentation and communication in both traditional and digital formats, and a deeper understanding of the human condition from multiple perspectives. We emphasize hands-on, experiential learning in methodology and research— as well as in traditional content and analysis—at all curriculum levels.

The faculty of the Department of Humanities and Social Sciences are committed to the educational mission of YSU and to enhancing the lives of YSU students and the wider community. Faculty in the department are engaged in important and impactful research on historical and contemporary social, ethical, and environmental issues. They also serve pivotal roles as officers in the regional and national organizations associated with their fields of expertise and offer that expertise in service to local, national, and global communities. For example, you will find members of our department active in curating museum exhibits, serving on Ethics Boards in local hospitals, speaking before Congress, commenting on local and national politics, listing and curating important historical sites, on archeological digs in multiple countries, helping local and regional coroners, and helping to plan the cities we call home. We offer a large variety of courses; regularly bring speakers to campus; have multiple student organizations; and are the home for many centers with a variety of focus areas.

We invite you to learn more about the diverse areas we represent at YSU by taking a look at our specific programs below. If you have even been motivated to look into the following questions, you are in the right place.

- How did we get to now and how can that knowledge help us in the future?
- What is the proper role of government?
- How should we understand the space in which we all operate?
- How do groups of people relate?
- What is it to be Human?
- What role does religion play in our lives and how does it impact the decisions we make?
- What is the right thing to do?
- What is our role in government in a democratic society?
- How can we create a more equitable community?
- How should we address social injustices?
- What forms of activism are most effective in creating change?
- How can I best serve my local, national, and global communities?

We look forward to talking with you and seeing you in our courses.

- Alan Tomhave, Chair, Department of Humanities and Social Sciences

**Departmental Majors**
More information can be found about the department by looking at the specific programs we encompass:

- Anthropology and Sociology
- Geography and Urban Studies
- History
- Philosophy and Religious Studies
- Politics and International Relations
- Master’s Programs:
  - American Studies
  - History

**Contact Information**

Alan Tomhave, Department Chair – aetomhave@ysu.edu – (330) 941-3447

Rosa Vega, Administrative Assistant – rmvega@ysu.edu – (330) 941-3456

520 DeBartolo Hall

(330) 941-3456
Geography and Urban-Regional Studies

Introduction

Students majoring in Geography earn the Bachelor of Arts degree, which may be taken in one of two tracks: Geography BA and Geography BA-GIScience/Remote Sensing Track. In addition to completing the University and CLASS requirements, a student majoring in Geography must complete a minimum of 33 semester hours in Geography. The GIScience/Remote Sensing Track requires an additional nine semester hours of support courses. At least 21 semester hours must be earned in upper-division Geography courses. Grades for courses required in the major must be a minimum of "C" or higher. The B.A. degree requires both a minor of at least 18 s.h. and a foreign language through the 2600-level course. This degree may be earned in eight semesters if students average 15 hours per semester.

Welcome from the Program Coordinator

Welcome! We invite you to explore the exciting and evolving field of geography! We offer a diverse curriculum that fits the interests and needs of students who have a broad outlook on life. Geography offers an alternative that can be employed for the pursuit of many unique and different career paths. We also provide extensive training in the fast growing field of Geographic Information Science. This technology is being employed in virtually every public and private sector of the economy. Our graduates are employed in environmental and urban planning agencies. They serve in areas that focus on ensuring the security interests of the United States. They have been admitted to graduate programs throughout the United States. Please contact me if you have any questions about the field of geography and how it can apply to your long-term career interests.

Ron Shaklee, Ph.D.
Professor and Program Coordinator

Contact Information

Ron Shaklee, Program Coordinator - rshaklee@ysu.edu - (330) 941-3319
Rosa Vega, Administrative Assistant - rmvega@ysu.edu - (330) 941-3456
124 Phelps Building
(330) 941-3317

Advising

All majors should meet with an advisor each semester prior to registering for their classes. Course selection is a critical part of finishing your degree in a timely manner.

Students pursuing a BA in Geography are advised by the Program Coordinator of Geography and Urban-Regional Studies or by any appropriate member of the faculty whose academic expertise coincides with the interests of the student. Call (330) 941-3317 to set up an appointment to meet with the Program Coordinator. Geography majors who need to submit repetition forms, study abroad forms, and transient forms or who need to request a graduation evaluation should contact the BCLASSE Division of Academic Advising at (330) 941-3413 (visit the BCLASSE Advising website (http://www.ysu.edu/academics/college-liberal-arts-social-sciences/class-advisement/)).

Geography Minors

Five minors in Geography are offered:

- General Geography
- Geographic Information Science
- Environmental Geography
- Human Geography
- Regional Geography

Each requires 18 s.h. of courses with at least one-third of the credit earned at the upper-division level.

Professor
Craig S. Campbell, Ph.D., Professor
Dawna Lynn Cerney, Ph.D., Associate Professor
Peter Kimosop, Ph.D., Associate Professor
Bradley A. Shelito, Ph.D., Professor

Majors

- BA in Geography (p. 216)
- BA in Geography GIS/Remote Sensing Track (p. 218)
- Spatial Information Systems (SIS) Individualized Curriculum Program (ICP) (p. 220)

Minors

- General Geography (p. 222)
- Environmental Geography (p. 222)
- Geographic Information Systems (p. 222)
- Human Geography (p. 222)
- Regional Geography (p. 222)

Certificates

- Geospatial Science and Technology (p. 220)

GEOG 1503 Physical Geography 3 s.h.
An introductory analysis of selected elements of the natural habitat and their geographic distribution. Includes processes involved in weather, climates, soils, vegetation, and landforms.
Gen Ed: Natural Science.

GEOG 1503L Physical Geography Laboratory 1 s.h.
Observation, collection and analysis of data pertaining to the Earth's weather and climate, surface landforms, drainage systems, soils, vegetation and changing global environmental conditions. In-class labs, local field excursions, and web-based assignments enable students to investigate these phenomena using the scientific method. The class meets two hours each week. Optional lab to accompany GEOG 1503.
Prereq.: GEOG 1503 or concurrent with GEOG 1503.

GEOG 2610 Map Use and Interpretation 3 s.h.
The use of maps, aerial photography, and satellite imagery to depict physical and cultural landscapes. Topics include map elements and how to locate, read, and interpret maps and remotely-sensed imagery.

GEOG 2611 Geospatial Foundations 3 s.h.
An overview of geospatial science and technology, including introductory concepts in spatial analysis, Geographic Information Systems, remote sensing, and GPS. The class provides a survey of theoretical geospatial topics as well as their applications in a computer lab setting.

GEOG 2626 World Geography 3 s.h.
A comparative study of representative regions of the world. Attention is focused on an examination of the physical, cultural, social and political attributes of selected regions.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.
GEOG 2630 Weather 3 s.h.
An examination of basic weather elements, their interrelationships and the natural laws that govern them. Focus is on both global scale atmospheric processes and localized factors that influence weather conditions and patterns.
Gen Ed: Natural Science.

GEOG 2630L Weather Lab 1 s.h.
Students observe, collect and analyze atmospheric data, and determine and predict weather conditions. Atmospheric laws and meteorological principles, concepts, and processes are investigated using the scientific method. Weekly investigations are undertaken in this hybrid lab encompassing in-class and online instructions. The class meets in person as needed for guidance. Optional lab to accompany GEOG 2630: Weather.
Prereq.: GEOG 2630 or concurrently with GEOG 2630.

GEOG 2640 Human Geography 3 s.h.
An examination of the place to place variation in people's utilization of the earth. Topics include the distribution of people, spatial variations in culture, urbanization and politicalization of space.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.

GEOG 2650 Global Economic Landscapes 3 s.h.
Geographic patterns of economic activities such as agriculture, manufacturing, retailing and services, and regional patterns and issues in the emerging global economy.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.

GEOG 3701 Introduction to Geographic Information Science 3 s.h.
Introduction to the principles of collection, storage, manipulation, retrieval, analysis and visualization of spatial data in a computer environment. Credit will not be given for GEOG 3701 if a student has already received credit for GEOG 5810.
Prereq.: GEOG 2611.

GEOG 3702 Introduction to Remote Sensing 3 s.h.
Analysis and interpretation of earth features from both airborne and satellite observation platforms. Topics include photogrammetry, digital data manipulation, multispectral imagery analysis, and interpretation of environmental features. Credit will not be given for GEOG 3702 if a student has already received credit for GEOG 5805.
Prereq.: GEOG 2611.

GEOG 3703 Human Impacts on the Environment 3 s.h.
Focus is on the interaction between natural systems and human activities that result in environmental change and degradation of the Earth's atmosphere, waters, soil, vegetation, and animal life. Societal conflicts, mitigation, conservation, and sustainable resource strategies are discussed.
Prereq.: GEOG 1503 or GEOL 1504 or GEOL 1505 or ENST 1500 or ENST 2600 or HIST 3774.

GEOG 3705 Mountain Geography 3 s.h.
Investigates the physical, biological, and cultural processes that take place in selected mountain environments. Topics also include resource use, environmental change, and sustainable development at both regional and global scales.
Prereq.: BIOL 1505 or ENST 1500 or ENST 2600 or GEOG 1503 or GEOG 1504 or GEOL 1505.

GEOG 3712 Thematic Map Design and Symbolization 3 s.h.
An introduction to cartographic design. Emphasis is on composition elements and the construction and perception of point, line, and area map symbols. The use of color, statistical techniques, and animated maps are also explored.
Prereq.: GEOG 2610 or GEOG 2611 or GEOG 2626 or GEOG 2640.

GEOG 3713 Geography of South America 3 s.h.
Spatial patterns found in the physical and cultural landscapes of South America.
Prereq.: GEOG 2626 or GEOG 2640; or HIST 3728.

GEOG 3715 Geography of Middle America 3 s.h.
Spatial patterns found in the physical and cultural landscapes of Middle America (Mexico, Central America, and the Caribbean).
Prereq.: GEOG 2626 or GEOG 2640; or HIST 3727.

GEOG 3717 Geography of Europe 3 s.h.
Spatial patterns found in the physical and cultural landscapes of Europe.
Prereq.: GEOG 2626 or GEOG 2640.

GEOG 3719 Geography of the United States 3 s.h.
Spatial patterns found in the physical and cultural landscapes of the United States.
Prereq.: GEOG 2626 or GEOG 2640; or HIST 2605 or HIST 2606.

GEOG 3721 Geography of Ohio 3 s.h.
Spatial patterns found in the physical and cultural landscapes of Ohio.
Prereq.: GEOG 2626 or GEOG 2640; or HIST 2605 or HIST 2606 or HIST 3748.

GEOG 3724 Themes in Cultural Geography 3 s.h.
A seminar focusing on cultural traditions in geography in the United States. Primary focus is on scholars, traditions, theory and methodology of cultural geography as published in the professional literature.
Prereq.: GEOG 2626 or GEOG 2640 or ANTH 1500 or SOC 1500.

GEOG 3726 Urban Geography 3 s.h.
A study of the changing spatial patterns associated with the rise of urbanization, comparative urban developments and cities as a part of the urban system.
Prereq.: GEOG 2626 or GEOG 2640; or HIST 3736; or SOC 3707.

GEOG 3730 Global Climates 3 s.h.
Focus is on the scientific foundations of Earth's climate system; basic understanding of climate behavior, patterns, variability and change; contributions of human activities to climate change; and societal vulnerabilities and responses to climate variability and change.
Prereq.: GEOG 1503 or GEOG 2630 or permission of instructor.

GEOG 3733 Severe and Hazardous Weather 3 s.h.
Focus is on severe weather that may threaten harm to life and/or property. The scientific underpinnings of severe weather types and their geographic distributions, hazards, and mitigation measures. Topics include extratropical cyclones; thunderstorms; lightning; tornadoes; hurricanes; floods; droughts; cold and heat waves; blizzards; snow, ice and wind storms; and El Nino/La Nina.
Prereq.: GEOG 1503 or GEOG 2630.

GEOG 3735 Water in the Earth System 3 s.h.
Focus is on the cycling of water within the Earth system. Covers the unique properties of water, the global water cycle, the distribution of water within the various reservoirs of the hydrosphere, the role of water in energy transfer and systems interactions, and human impacts on water resources.
Prereq.: GEOG 1503 or GEOG 2630; or GEOL 1504 or GEOL 1505 or GEOL 2602; or ENST 1500 or ENST 2600.

GEOG 3737 Soils and Land Use 3 s.h.
Examination of soil characteristics influencing land use planning and development. Topics include the basic physical and chemical properties of soil, soil water, the soil-forming factors, the use and interpretation of county soil reports, and soil characteristics beneficial and detrimental to selected land use practices. Participation in field trips is required.
Prereq.: GEOG 1503; or GEOG 1504 or GEOG 1505; or ENST 2600; high school chemistry recommended.

GEOG 3741 Transportation Geography 3 s.h.
Spatial properties of interregional and intraurban transportation. Topics include network development, movement patterns of people and commodities and the impact of transportation on other activities.
Prereq.: GEOG 2626 or GEOG 2640 or GEOG 2650 or GEOG 3745.

GEOG 3745 The Automobile in American Culture 3 s.h.
The impact of the automobile on the economic, cultural and environmental landscapes of the United States from a geographic standpoint.
Prereq.: GEOG 2640 or GEOG 2650 or GEOG 3741.
GEOG 3750  Topics in Regional Geography  3 s.h.
Application of the regional method to selected areas of the world. Topic is
announced each time the course is offered. May be repeated three times for
credit if content is not repeated. Maximum credit 9 s.h.
Prereq.: GEOG 2626 or GEOG 2640.

GEOG 3775  Field Methods in Geography  3 s.h.
Practical experiences in geographic data collection. Emphasis on applying
techniques of observation, sampling, surveying, interviewing and mapping
to both physical and human spatial phenomena. Participation in field trips is
mandatory.
Prereq.: GEOG 1503 or GEOG 2610 or GEOG 2640.

GEOG 3781  GIS Applications for the Social Sciences  3 s.h.
Applications of Geographic Information Science (GIS) techniques for the
social sciences in disciplines such as economics, sociology, anthropology,
political science, and urban/cultural geography, as distinct from physical or
environmental sciences. Focus is on the integration of a spatial perspective in
social research, analysis and policy development and how GIS can be useful
for collecting and analyzing both qualitative and quantitative data.
Prereq.: GEOG 2611.

GEOG 3782  GIS Applications for the Natural Sciences  3 s.h.
Applications of Geographic Information Science (GIS) techniques for the
natural sciences in disciplines such as physical geography, geology,
biology, ecology, natural hazards, environmental monitoring, planning
and infrastructure, water resources, climate change, and energy. Topics range from
spatial data quality, data conversion, database design, data management,
analysis, and visualization.
Prereq.: GEOG 2611.

GEOG 3783  GIS Applications in Urban-Regional Studies  3 s.h.
The application of Geographic Information Systems (GIS) to issues involved in
urban and regional studies, such as economic development, housing
development and redevelopment, neighborhood revitalization, city planning,
rural planning, zoning decisions, and transportation planning. The course is
designed to provide planners and developers with an analytical skill set for
collecting and analyzing both qualitative and quantitative spatial data. Two
hours of lecture each week and two structured hours of lab each week.
Prereq.: GEOG 2611.

GEOG 4801  Advanced Geographic Information Science  3 s.h.
A continuation of Introduction to Geographic Information Science focusing on
theory and application of advanced techniques in spatial data handling,
GIS modeling, and spatial analysis. Credit will not be given for GEOG 4801 if a
student has already received credit for GEOG 5811. 3 s.h.
Prereq.: GEOG 3701 or GEOG 5810.

GEOG 4802  Advanced Remote Sensing  3 s.h.
A continuation of Introduction to Remote Sensing focusing on advanced
theory of image classification, image processing and enhancement, and
methods of spatial analysis. Credit will not be given for GEOG 4802 if a student
has already received credit for GEOG 5806. 
Prereq.: GEOG 3702 or GEOG 5805.

GEOG 4820  Urban-Regional Studies Seminar  3 s.h.
Selected aspects of urban-regional studies not covered in existing courses.
Topic to be announced each time the course is offered. May be taken up to two
times for credit if topic is not repeated.
Prereq.: GEOG 3726 or consent of instructor.

GEOG 4825  Geography Internship  1-3 s.h.
Practical application of geographic principles and skills in the public or private
workplace. A minimum of 40 clock hours per credit hour per semester is
required in the work setting. An activities log must be maintained and oral and
written reports of the internship experience are required. May be repeated for
up to 6 s.h. By permit only.
Prereq.: 3 s.h. upper-division geography.

GEOG 4840  Seminar in Geography  3 s.h.
Selected aspects of geography not covered in existing courses. Topic to be
announced each time the course is offered. May be taken up to two times for
credit if topic is not repeated.
Prereq.: 9 s.h. of geography.

GEOG 4890  Geography Capstone  3 s.h.
Investigation of research topics, methods, and issues in geography. Students
select a geographic research topic, collect and analyze data using appropriate
methods and present findings in oral and written form.
Prereq.: Senior standing in Geography.

Gen Ed 5802  Biogeography  3 s.h.
The distribution and scale of flora and fauna and the factors and processes
that produce these patterns. Topics also include disturbance events, dispersal,
colonization and invasion, and biological hierarchy.
Prereq.: BIOL 1505 or BIOL 2602 or GEOG 1503.

GEOG 5812  Global Positioning Systems and GIScience  3 s.h.
Background, application and theory of satellite positioning technology.
Incorporates GPS field data collection and subsequent integration with GIS
analysis tools.
Prereq.: GEOG 3701 or GEOG 5810 or permission of instructor.

GEOG 5820  Directed Research in Geography  1-3 s.h.
An in-depth study of a specific problem in geography. The problem is
dependent upon the student’s interest and competence, availability of faculty
supervision and department equipment. May be repeated up to 3 s.h.
Prereq.: 20 s.h. of Geography.

GEOG 5850  International Area Study  3 s.h.
A course in the geography and history of a selected international area with
emphasis on cultural development by traveling in the selected region. The
class and travel is supervised by the geography and/or history faculty. The
emphasis on cultural development by traveling in the selected region. The
class and travel is supervised by the geography and/or history faculty. The
course grade is based upon a term paper which must be submitted within 60
days after the end of the course.
Prereq.: permission of the chairperson.

Bachelor of Arts in Geography

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
<td>Mathematics requirement</td>
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<td>or MATH 262: Quantitative Reasoning</td>
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<td>or STAT 2601 Introductory Statistics</td>
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Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model.

Arts and Humanities (6 s.h.)

Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)

GEOG 1503  Physical Geography 3

Natural Science elective with lab 4

Social Science (6 s.h.)

GEOG 2626  World Geography 3
| or GEOG 2640 | Human Geography | 3 |

Social Science elective 3
Social and Personal Awareness (6 s.h.)

<table>
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<tr>
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<th>Description</th>
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<tbody>
<tr>
<td>FNLG 1550</td>
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<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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Foreign Language Requirement

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<th>Description</th>
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<tbody>
<tr>
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<td>Elementary Foreign Language</td>
</tr>
<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
</tr>
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</table>

Required Major Courses (6 s.h.):

At least 21 s.h. of GEOG courses must be at the 3700-level or above. Grade of C or better is required. Courses cannot be taken CR/NC and cannot count towards both the major and minor.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GEOG 1503</td>
<td>Physical Geography</td>
</tr>
<tr>
<td>GEOG 4890</td>
<td>Geography Capstone</td>
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Select one of the following courses (3 s.h.):

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<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
</tr>
<tr>
<td>GEOG 2640</td>
<td>Human Geography</td>
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Select one of the following courses (3 s.h.):

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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>GEOG 2610</td>
<td>Map Use and Interpretation</td>
</tr>
<tr>
<td>GEOG 2611</td>
<td>Geospatial Foundations</td>
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Regional Geography - Select one course from the following (3 s.h.):

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>GEOG 3713</td>
<td>Geography of South America</td>
</tr>
<tr>
<td>GEOG 3715</td>
<td>Geography of Middle America</td>
</tr>
<tr>
<td>GEOG 3717</td>
<td>Geography of Europe</td>
</tr>
<tr>
<td>GEOG 3719</td>
<td>Geography of the United States</td>
</tr>
<tr>
<td>GEOG 3721</td>
<td>Geography of Ohio</td>
</tr>
<tr>
<td>GEOG 3750</td>
<td>Topics in Regional Geography</td>
</tr>
<tr>
<td>GEOG 5850</td>
<td>International Area Study</td>
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</table>

Geography Skills - Select two of the following (6 s.h.):

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>GEOG 3701</td>
<td>Introduction to Geographic Information Science</td>
</tr>
<tr>
<td>GEOG 3702</td>
<td>Introduction to Remote Sensing</td>
</tr>
<tr>
<td>GEOG 3712</td>
<td>Thematic Map Design and Symbolization</td>
</tr>
<tr>
<td>GEOG 3775</td>
<td>Field Methods in Geography</td>
</tr>
<tr>
<td>GEOG 3781</td>
<td>GIS Applications for the Social Sciences</td>
</tr>
<tr>
<td>GEOG 3782</td>
<td>GIS Applications for the Natural Sciences</td>
</tr>
<tr>
<td>GEOG 4801</td>
<td>Advanced Geographic Information Science</td>
</tr>
<tr>
<td>GEOG 4802</td>
<td>Advanced Remote Sensing</td>
</tr>
<tr>
<td>GEOG 5812</td>
<td>Global Positioning Systems and GIScience</td>
</tr>
</tbody>
</table>

Select at least 15 s.h. of additional Geography electives (at least 9 s.h. must be 3700-level or higher.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tr>
<td>Minor</td>
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<tr>
<td>Electives to reach 120 hours</td>
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</tbody>
</table>

Total Semester Hours

118-122

Suggested Minors Include: Environmental Science, Anthropology, Geoscience, Sociology, Political Science, History

BA in Geography with GIScience Certificate

Suggested 4-Year Semester Plan

Year 1

<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>15</td>
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Fall

<table>
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<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>GEOG 1503</td>
<td>Physical Geography</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing</td>
</tr>
<tr>
<td>MATH 1510</td>
<td>College Algebra (Mathematics Requirement)</td>
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<tr>
<td>or MATH 2623</td>
<td>or Quantitative Reasoning</td>
</tr>
<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
</tr>
<tr>
<td>or GEOG 2640</td>
<td>Map Use and Human Geography</td>
</tr>
<tr>
<td>GEOG 2610</td>
<td>or GEOG 2611</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<tr>
<td>Arts and Humanities 15XX/26XX-level course</td>
<td>3</td>
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<tr>
<td>Minor 15XX/26XX-level course</td>
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Year 2

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<tr>
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<td>16</td>
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Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>GEOG 37XX-level Geography Regional course</td>
<td>3</td>
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<tr>
<td>Arts and Humanities 15XX/26XX-level course</td>
<td>3</td>
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<tr>
<td>Social and Personal Awareness 15XX/26XX-level course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science with Lab 15XX/26XX-level course</td>
<td>4</td>
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<tr>
<td>Minor 15XX/26XX-level course</td>
<td>3</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Geography Elective 37XX-level course</td>
<td>3</td>
</tr>
<tr>
<td>Geography Elective 26XX/37XX-level course</td>
<td>3</td>
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<tr>
<td>Social and Personal Awareness 15XX/26XX-level course</td>
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<tr>
<td>Social Science 15XX/26XX course</td>
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<td>Minor 15XX/26XX-level course</td>
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Year 3

<table>
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Fall

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GEOG 3701</td>
<td>Introduction to Geographic Information Science</td>
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<tr>
<td>GEOG 3702</td>
<td>Introduction to Remote Sensing</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Elective 37XX-level course</td>
<td>3</td>
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<tr>
<td>Minor 15XX/26XX-level course</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>Geography Elective 37XX-level course</td>
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<tr>
<td>GEOG 4802</td>
<td>Advanced Remote Sensing</td>
</tr>
<tr>
<td>GE Elective 15XX/26XX-level course</td>
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<tr>
<td>Elective 26XX/37XX-level course</td>
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Year 4

<table>
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Fall

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>GEOG 4890</td>
<td>Geography Capstone</td>
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<tr>
<td>GIScience Certificate Elective 37XX-level course</td>
<td>3</td>
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<tr>
<td>Elective 26XX/37XX-level course</td>
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</tr>
<tr>
<td>Minor 37XX-level course</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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<tbody>
<tr>
<td>GIScience Certificate Elective 37XX-level course</td>
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<tr>
<td>Geography Elective 37XX-level course</td>
<td>3</td>
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<tr>
<td>Elective 26XX/37XX-level course</td>
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Total Semester Hours

122
BA in Geography Without GIScience Certificate

Suggested 4-Year Semester Plan

Year 1

Fall

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>GEOG 1503</td>
<td>Physical Geography</td>
<td>3</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
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<tr>
<td>MATH 1510</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>FNGL 1550</td>
<td>Elementary Foreign Language or Quantitative Reasoning</td>
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<tr>
<td>LASS 1510</td>
<td>Exploring Critical Questions in LASS</td>
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Semester Hours 13

Spring

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<tbody>
<tr>
<td>GEOG 2626</td>
<td>World Geography or Human Geography</td>
<td>3</td>
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<tr>
<td>GEOG 2610</td>
<td>Map Use and Interpretation or Geospatial Foundations</td>
<td>3</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<td>FNGL 2600</td>
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Semester Hours 16

Year 2

Fall

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<td>Geography Regional Course</td>
<td>3</td>
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<tr>
<td>Arts and Humanities 15XX/26XX-level course</td>
<td>3</td>
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<td>Social and Personal Awareness 15XX/26XX-level course</td>
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<td>Natural Science with Lab 15XX/26XX-level course</td>
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Semester Hours 15

Spring

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<tr>
<td>Geography Elective 26XX/37XX-level course</td>
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<tr>
<td>Social and Personal Awareness 15XX/26XX-level course</td>
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<td>GE Elective 37XX-level course</td>
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Semester Hours 15

Year 3

Fall

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<td>Geography Elective 37XX-level course</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>Elective 37XX-level course</td>
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Semester Hours 15

Spring

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<tr>
<td>GE Elective 15XX/26XX-level course</td>
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<tr>
<td>Elective 26XX/37XX-level course</td>
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Semester Hours 15

Year 4

Fall

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</thead>
<tbody>
<tr>
<td>GEOG 4890</td>
<td>Geography Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Elective 37XX-level course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective 37XX-level course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor 37XX-level course</td>
<td>3</td>
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</tr>
</tbody>
</table>

Semester Hours 15

Semester Hours Total 120

Learning Outcomes

Geography majors, upon fulfilling the requirements of the major, will:

- Demonstrate understanding of the fundamental themes of human and physical geography: region, movement, human/environmental interaction, landscape, and place.
- Demonstrate understanding of spatial patterns and processes in the human and physical environment.
- Effectively use, analyze, and interpret maps and other graphic representations of geographic information.
- Be proficient in geographic methods and techniques such as cartography, GIScience, remote sensing, and field methods.
- Effectively communicate geographic information in written and oral forms.
- Complete a research proposal that requires synthesis of relevant literature and development of a viable geographic research project.

Bachelor of Arts in Geography-GIS/RS Track

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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</table>

General Education Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-6</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations (Mathematics requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 2601</td>
<td>Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 2623</td>
<td>Quantitative Reasoning</td>
<td></td>
</tr>
<tr>
<td>or STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
<td></td>
</tr>
</tbody>
</table>

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model.

Arts and Humanities (6 s.h.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE Elective 15XX/26XX-level course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective 26XX/37XX-level course</td>
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<td></td>
</tr>
<tr>
<td>Minor 37XX-level course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Semester Hours 15

Year 4

Fall

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>GEOG 4890</td>
<td>Geography Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Elective 37XX-level course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective 37XX-level course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor 37XX-level course</td>
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</tr>
</tbody>
</table>

Semester Hours 15

Total Semester Hours 120

Bachelor of Arts in Geography-GIS/RS Track

COURSE | TITLE | S.H. |
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-6</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations (Mathematics requirement)</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 2601</td>
<td>Introductory Statistics</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 2623</td>
<td>Quantitative Reasoning</td>
<td></td>
</tr>
<tr>
<td>or STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
<td></td>
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</tbody>
</table>

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model.

Arts and Humanities (6 s.h.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Humanities</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 1503</td>
<td>Physical Geography (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science elective</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Social Science (6 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 2640</td>
<td>Human Geography</td>
<td></td>
</tr>
<tr>
<td>Social Science elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Social and Personal Awareness (6 s.h.) 6

Foreign Language Requirement  
FNGL 1550  Elementary Foreign Language 4  
FNGL 2600  Intermediate Foreign Language 4

MAJOR REQUIREMENTS  
At least 21 s.h. of GEOG courses must be at the 3700-level or above. Grade of C or better is required. Courses cannot be taken CR/NC and cannot count towards both the major and minor.  
GEOG 1503  Physical Geography 3  
GEOG 2611  Geospatial Foundations 3  
GEOG 3701  Introduction to Geographic Information Science 3  
GEOG 3702  Introduction to Remote Sensing 3  
GEOG 4890  Geography Capstone 3  
Select one of the following courses (3 s.h.): 3  
GEOG 2626  World Geography  
GEOG 2640  Human Geography  
Regional Geography - Select one course from the following (3 s.h.): 3  
GEOG 3713  Geography of South America  
GEOG 3715  Geography of Middle America  
GEOG 3717  Geography of Europe  
GEOG 3719  Geography of the United States  
GEOG 3721  Geography of Ohio  
GEOG 3750  Topics in Regional Geography  
GEOG 5850  International Area Study  
Select one course from the following (3 s.h.): 3  
GEOG 4801  Advanced Geographic Information Science  
GEOG 4802  Advanced Remote Sensing  
Select two additional courses from the following (6 s.h.): 6  
GEOG 3712  Thematic Map Design and Symbolization  
GEOG 3775  Field Methods in Geography  
GEOG 3781  GIS Applications for the Social Sciences  
GEOG 3782  GIS Applications for the Natural Sciences  
GEOG 4801  Advanced Geographic Information Science  
GEOG 4802  Advanced Remote Sensing  
GEOG 4825  Geography Internship  
GEOG 4840  Seminar in Geography  
GEOG 5812  Global Positioning Systems and GIScience  
GEOG 5820  Directed Research in Geography  
Select one 3 s.h. GEOG course at the 3700-level or higher 3  
Four Required Support Courses (12-13 s.h.):  
CSIS 1590  Survey of Computer Science and Information Systems 3  
CSIS 1595  Fundamentals of Programming and Problem-Solving 1  
CSIS 3722  Development of Databases 3  
Select one of the following courses which satisfies the General Education MATH requirement: 3-4  
STAT 2601  Introductory Statistics  
STAT 2625  Statistical Literacy and Critical Reasoning  
MATH 2623  Quantitative Reasoning  
Minor  18  
Electives to meet 120 hours 8  
Total Semester Hours 117-120

Year 1  
Spring  S.H.  
ENGL 1551  Writing 2 3  
FNGL 2600  Intermediate Foreign Language 4

Year 2  
Spring  
Social and Personal Awareness 15XX/26XX- level course 3  
Minor 15XX/26XX- level course 3  
Arts and Humanities 15XX/26XX level course 3  
CSIS 1595  Fundamentals of Programming and Problem-Solving 1 3  
GEOG 37XX Regional Geography Elective 3  
Semester Hours 15  
Fall  
GEOG 3701  Introduction to Geographic Information Science 3  
GEOG 3702  Introduction to Remote Sensing 3  
Social Science 15XX/26XX course 3  
Natural Science 15XX/26XX level course w/lab 4  
CSIS 1590  Survey of Computer Science and Information Systems 3  
Semester Hours 16

Year 3  
Spring  
Minor 15XX/26XX- level course 3  
GEOG Elective 37XX/48XX- level course 3  
Minor 15XX/26XX- level course 3  
Minor 15XX/26XX- level course 3  
Elective 37XX/48XX- level course 3  
Semester Hours 15  
Fall  
CMST 1545  Communication Foundations 3  
GEOG 4801  Advanced Geographic Information Science 3  
GEOG 4802  Advanced Remote Sensing 3  
Social Science 15XX/26XX course 3  
Social and Personal Awareness 15XX/26XX- level course 3  
CSIS 3722  Development of Databases 3  
Semester Hours 15

Year 4  
Spring  
Minor 37XX/48XX- level course 3  
GEOG 37XX- level or higher elective 3  
GIS Elective GEOG 37XX/48XX/58XX- level course 3  
Semester Hours 15
Elective 37XX/48XX- level course 3
Elective 37XX/48XX- level course 3

Semester Hours 15

Fall
GEOG 4890  Geography Capstone 3
Minor 37XX/48XX- level course 3
GIS Elective GEOG 37XX/48XX/58XX- level course 3
GEOG Elective 37XX/48XX- level course 3
Elective 2

Semester Hours 14

Total Semester Hours 120-122

Learning Outcomes

Geography majors, upon fulfilling the requirements of the major, will:

- Demonstrate understanding of the fundamental themes of human and physical geography: region, movement, human/environmental interaction, landscape, and place.
- Demonstrate understanding of spatial patterns and processes in the human and physical environment.
- Effectively use, analyze, and interpret maps and other graphic representations of geographic information.
- Be proficient in geographic methods and techniques such as cartography, GIScience, remote sensing, and field methods.
- Effectively communicate geographic information in written and oral forms.
- Complete a research proposal that requires synthesis of relevant literature and development of a viable geographic research project.

In addition to the above, students completing the GIS/RS Track or a Certificate in Geospatial Science and Technology will:

- Demonstrate proficiency in one or more applications of geospatial technology: geographic information systems, global positioning systems, and remote sensing.

Certificate in Geospatial Science and Technology (GSAT)

The certificate provides a program for students and professionals interested in geospatial careers and technologies (including Geographic Information Science, Remote Sensing, the Global Positioning System, Cartography, and spatial data handling and analysis). The certificate signifies academic proficiency in Geospatial Science and Technology and is administered by the Department of Humanities and Social Sciences. It is rendered upon completion of the requirements and includes a physical copy of the certificate and entry on the student's transcript.

Students must take a minimum of 18 s.h. (6 courses) as listed below and complete them with a cumulative GPA of 3.00 (B) or higher and no course grade below a C. The certificate is available to undergraduates and non-degree seeking professionals who meet course requirements. Note that some classes may require prerequisites courses for entrance.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 2611</td>
<td>Geospatial Foundations</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3701</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3702</td>
<td>Introduction to Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from the following (3 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 4801</td>
<td>Advanced Geographic Information Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Learning Outcomes

Students, upon fulfilling the requirements of the Certificate in Geospatial Science and Technology (GSAT), will:

- Effectively use, analyze, and interpret maps and other graphic representations of geographic information.
- Be proficient in geographic methods and techniques such as cartography, GIScience, remote sensing, and field methods.
- Effectively communicate geographic information in written and oral forms.

Demonstrate proficiency in one or more applications of geospatial technology — geographic information systems, global positioning systems, and remote sensing.

Spatial Information Systems (SIS) Individualized Curriculum Program (ICP)

In addition to offering the Geography major, the department coordinates an Individualized Curriculum Program (ICP) in Spatial Information Systems that combines courses in Geography and Computer Science and Information Systems, which leads to a Bachelor of Applied Science degree. A foreign language is not required to complete this degree.

The program is focused on three areas:

- Geography
- Computer Science and Information Systems
- specialty electives
Required GEOG and CSIS courses are specified on the Curriculum Sheet.

**Learning Outcomes**

Spatial Information Systems majors, upon fulfilling the requirements of the major will:

- Demonstrate understanding of spatial patterns and processes in the human and physical environments.
- Demonstrate proficiency in one or more applications of geospatial technology – Geographic Information Systems, Global Positioning Systems and/or Remote Sensing.
- Complete a research proposal that requires synthesis relevant literature and development of a viable geographic research project.

Total hours required for the SIS ICP degree is 124 s.h. of which at least 48 s.h. must be at the 3000-level or higher. No minor or foreign language is required for this degree.

**COURSE** | **TITLE** | **S.H.**
---|---|---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 1-2
or HONR 1500 | Intro to Honors | 1-2
**General Education Requirements**
ENGL 1550 | Writing 1 | 3
ENGL 1551 | Writing 2 | 3
CMST 1545 | Communication Foundations | 3
Mathematics Requirement | | 3
Arts and Humanities courses | | 6
Natural Science | | 4
GEOG 1503 meets 3 s.h. of Natural Science Requirement | | 3
Social Science | | 6
GEOG 2626 or GEOG 2640 meet 3 s.h. of the Social Science | | 6
**Required Geography Core Courses**
GEOG 1503 | Physical Geography | 3
GEOG 4890 | Geography Capstone | 3
GEOG 2610 | Map Use and Interpretation | 3
or GEOG 2611 | Geospatial Foundations | 3
GEOG 2626 | World Geography | 3
or GEOG 2640 | Human Geography | 3
**Required Geospatial Core Courses**
GEOG 3701 | Introduction to Geographic Information Science | 3
GEOG 3702 | Introduction to Remote Sensing | 3
GEOG 4801 | Advanced Geographic Information Science | 3
GEOG 5812 | Global Positioning Systems and GIScience | 3
**Required Complementary Skill Courses**
DDT 1505 | CAD Technology 1 | 4
ENGL 3743 | Professional and Technical Writing | 3
**Required CSIS Core Courses**
CSIS 1590 | Survey of Computer Science and Information Systems | 3
CSIS 2610 | Programming and Problem-Solving | 4
CSIS 3726 | Visual/Object-Oriented Programming | 4
CSIS 3722 | Development of Databases | 3
Select at least 6 s.h. from the following CSIS/CSCI Info elective courses: | | 6-8
- CSIS 3760 | Electronic Commerce Programming |
- CSIS 4822 | Database Applications |
- CSIS 5824 | Applied Artificial Intelligence |
- CSIS 5838 | Graphics and Animation for Gaming |
- CSCI 5895 | Special Topics (with approval of the chairperson) |
- INFO 3774 | Multimedia Technology |
- INFO 3775 | Multimedia Authoring |
Select at least 6 s.h. from the following GEOG elective courses with approval of the chairperson: | | 6
- GEOG 3712 | Thematic Map Design and Symbolization |
- GEOG 3726 | Urban Geography |
- GEOG 3737 | Soils and Land Use |
- GEOG 3741 | Transportation Geography |
- GEOG 3775 | Field Methods in Geography |
- GEOG 4825 | Geography Internship |
- GEOG 4840 | Seminar in Geography |
- GEOG 5806 |
- GEOG 5820 | Directed Research in Geography |
**Electives**
Select a minimum of 23 hours of outside electives. | | 23
**Suggested (but not limited to) Courses**
Select an additional 8-10 hours from the following: | | 8-10
- ANTH 3702 | Archaeology (Prerequisite ANTH 1500 or ANTH 1503) |
- ANTH 3778 | Archaeological Techniques (Prerequisite ANTH 3702) |
- ANTH 4825 | New World Archaeology: Topics (Prerequisite ANTH 3702) |
- ANTH 4890 | Advanced Topics in Archaeology (Prerequisite ANTH 3702) |
- BIOL 3780 | General Ecology (Prerequisite BIOL 2602) |
- DDT 2606 | CAD Solid Modeling (Prerequisite CCT 1503 or DDT 1505) |
- DDT 2607 | Civil 3D (Prerequisite DDT 1503 or DDT 1505) |
- GEOL 3706 | Geology of Economic Mineral Deposits (Prerequisite GEOL 1505 or GEOL 2606) |
- GEOL 5815 | Geology and the Environment 2 (Prerequisite GEOL 2615 or ENST 2600) |
**Total Semester Hours** | | 120-125

Courses taken under this section allow the SIS major to choose areas of application appropriate to his/her field of interest. Or it may allow further development of the student in a direction of her/his choice, such as environmental studies, biological sciences, archeology, or drafting and design. The choice is left open for the student in consultation with approval of the faculty members overseeing the ICP. Some suggested elective courses are listed but the student may also select additional courses from the GEOG and computer elective listings above. Be aware that selected courses may require prerequisites (in parentheses).

Summary:

GER hours: 40 s.h.
Total GEOG hours: 30 s.h.
Total CSIS/INFO hours: 20-22 s.h.
Total complementary skill hours: 6 s.h.
Outside elective hours: 18 s.h.
Additional hours: 8-10 s.h.
## Minor in Geographic Information Science

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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</tr>
<tr>
<td>GEOG 2611</td>
<td>Geospatial Foundations</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3701</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3702</td>
<td>Introduction to Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 4801</td>
<td>Advanced Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select 6 s.h. from the following courses:</strong></td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>GEOG 3712</td>
<td>Thematic Map Design and Symbolization</td>
<td></td>
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<tr>
<td>GEOG 3775</td>
<td>Field Methods in Geography</td>
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<tr>
<td>GEOG 3781</td>
<td>GIS Applications for the Social Sciences</td>
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<tr>
<td>GEOG 3782</td>
<td>GIS Applications for the Natural Sciences</td>
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<tr>
<td>GEOG 4802</td>
<td>Advanced Remote Sensing</td>
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</tr>
<tr>
<td>GEOG 5812</td>
<td>Global Positioning Systems and GIScience</td>
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</tr>
<tr>
<td>GEOG 5814</td>
<td></td>
<td></td>
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<tr>
<td>The following may be used to fulfill the required 6 s.h. above if the course theme is GIScience related:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 4825</td>
<td>Geography Internship</td>
<td></td>
</tr>
<tr>
<td>GEOG 4840</td>
<td>Seminar in Geography</td>
<td></td>
</tr>
<tr>
<td>The following course is suggested but not required:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td></td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<td>18</td>
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## Minor in Human Geography

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td><strong>Required course (3 s.h.):</strong></td>
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</tr>
<tr>
<td>GEOG 2640</td>
<td>Human Geography</td>
<td>3</td>
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<tr>
<td><strong>Select 3 s.h. from the following courses:</strong></td>
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<td>3</td>
</tr>
<tr>
<td>GEOG 2610</td>
<td>Map Use and Interpretation</td>
<td></td>
</tr>
<tr>
<td>GEOG 2611</td>
<td>Geospatial Foundations</td>
<td></td>
</tr>
<tr>
<td><strong>Select 12 s.h. from the following courses with 6 s.h. being upper-division (3700+) credit:</strong></td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 2650</td>
<td>Global Economic Landscapes</td>
<td></td>
</tr>
<tr>
<td>GEOG 3701</td>
<td>Introduction to Geographic Information Science</td>
<td></td>
</tr>
<tr>
<td>GEOG 3712</td>
<td>Thematic Map Design and Symbolization</td>
<td></td>
</tr>
<tr>
<td>GEOG 3724</td>
<td>Themes in Cultural Geography</td>
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</tr>
<tr>
<td>GEOG 3726</td>
<td>Urban Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 3741</td>
<td>Transportation Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 3745</td>
<td>The Automobile in American Culture</td>
<td></td>
</tr>
<tr>
<td>GEOG 5850</td>
<td>International Area Study</td>
<td></td>
</tr>
<tr>
<td>The following may be used to fulfill the required 12 s.h. above if the course theme is human geography related:</td>
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</tr>
<tr>
<td>GEOG 4825</td>
<td>Geography Internship</td>
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<tr>
<td>GEOG 4840</td>
<td>Seminar in Geography</td>
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</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
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<td>18</td>
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## Minor in Regional Geography

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td><strong>Select 3 s.h. from the following courses:</strong></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
<td></td>
</tr>
<tr>
<td>GEOG 2640</td>
<td>Human Geography</td>
<td></td>
</tr>
<tr>
<td><strong>Select 15 s.h. from the following courses:</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>GEOG 3713</td>
<td>Geography of South America</td>
<td></td>
</tr>
<tr>
<td>GEOG 3715</td>
<td>Geography of Middle America</td>
<td></td>
</tr>
<tr>
<td>GEOG 3717</td>
<td>Geography of Europe</td>
<td></td>
</tr>
<tr>
<td>GEOG 3719</td>
<td>Geography of the United States</td>
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<tr>
<td>GEOG 3721</td>
<td>Geography of Ohio</td>
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<tr>
<td>GEOG 3724</td>
<td>Themes in Cultural Geography</td>
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<tr>
<td>GEOG 3750</td>
<td>Topics in Regional Geography</td>
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<tr>
<td>The following may be used to fulfill the required 15 s.h. if the course theme is regionally related:</td>
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<tr>
<td>GEOG 4840</td>
<td>Seminar in Geography</td>
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<tr>
<td>GEOG 5850</td>
<td>International Area Study</td>
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<tr>
<td>6 s.h. of the minor must be in courses numbered 3700 or higher</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<td>18</td>
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## Minor in General Geography

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td><strong>Required Course:</strong></td>
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<tr>
<td>GEOG 1503</td>
<td>Physical Geography</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select 3 s.h. from the following:</strong></td>
<td></td>
<td>3</td>
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<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
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<tr>
<td>GEOG 2640</td>
<td>Human Geography</td>
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<tr>
<td><strong>Select 3 s.h. from the following physical/environmental geography courses:</strong></td>
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<td>3</td>
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<tr>
<td>GEOG 2630</td>
<td>Weather</td>
<td></td>
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<tr>
<td>GEOG 3703</td>
<td>Human Impacts on the Environment</td>
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<tr>
<td>GEOG 3705</td>
<td>Mountain Geography</td>
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<td>GEOG 3730</td>
<td>Global Climates</td>
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<td>GEOG 3733</td>
<td>Severe and Hazardous Weather</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td>18</td>
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</tbody>
</table>
the teaching of history in and out of the classroom the program fosters understanding and appreciation of diversity and provides a global perspective. Our aim is to examine and disseminate knowledge of the past and of the nature of its study and reconstruction through a variety of educational experiences and historical methodologies and to train future scholars of history.

The student majoring in history must complete, in addition to the general University requirements, the group requirements outlined on the curriculum sheet (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/department-history/ba-history/#curriculumsheettext). It is recommended that the student select courses with assistance from an advisor, since certain courses are preferable to others according to whether one contemplates graduate study, secondary school teaching, or any of the many other careers for which History provides excellent preparation.

The Bachelor of Arts in History can be completed in eight semesters if students average 16 hours per semester.

For more information, visit the Department of Humanities and Social Sciences, which houses the History Program, in DeBartolo Hall, room 519 or contact us at (330) 941-3452.

Professor
Daniel Ayana, Ph.D., Professor
Brian Bonhomme, Ph.D., Professor
Eleanor A. Congdon, Ph.D., Associate Professor
Amy Fluker, Ph.D., Assistant Professor
Jacob Labendz, Ph.D., Assistant Professor
Thomas E. Leary, Ph.D., Associate Professor
Martha Pallante, Ph.D., Professor
David A. Simonelli, Ph.D., Professor
Fred W. Viehe, Ph.D., Professor

Lecturer
Kyle Starkey, M.A., Lecturer

 Majors
• Bachelor in History (p. 228)

 Minors
• Minor in History (p. 231)
• Minor in Applied History (p. 230)
• Minor in Judaic Studies (p. 231)

 Certificates
• Certificate in Historic Preservation (p. 230)

HIST 1500 Discovering World History 3 s.h.
Introduction to the methods, problems, and content of world history from Antiquity to the present. Emphasizes the relevance of past events and developments to the modern world. Does not count toward the major or minor in history, nor toward integrated social science degrees.

Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.
HIST 1501  American Dreams: Introduction to United States History  3 s.h.
Survey of American history focusing on five strategic events in the American past. Emphasis is on cultural conflict and compromise, institutional developments and revolutions, and the emergence of democracy as concept and practice. This course is intended for those students for whom history is not a requirement.
Gen Ed: Social Science.

HIST 1511  World Civilization to 1500  3 s.h.
Origins and growth of the major civilizations of the world from earliest times to about 1500.
Prereq.: Placement into ENGL 1550 or completion of ENGL 1539 or ENGL 1540.
Gen Ed: Social Science.

HIST 1512  World Civilization from 1500  3 s.h.
Development of the major civilizations of the world from 1500 to the present.
Prereq.: Placement into ENGL 1550 or completion of ENGL 1539 or ENGL 1540.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.

HIST 2600  Introduction to Jewish Studies  3 s.h.
What does it mean (and what has it meant) to be Jewish? This course prepares students for the study of Jewish peoples and histories, with a focus on diverse communities, identities, culture, and religion. Historical analysis is paired with investigations into twenty-first century Jewish life, providing insight into the contemporary world. Special attention is paid to US and local Jewish communities.
Gen Ed: Arts and Humanities, Domestic Diversity, Social and Personal Awareness.

HIST 2601  American Military History  3 s.h.
A survey of American military history from the origin of the United States Army to the present, with emphasis on how military policies and strategies have been influenced by the domestic and foreign affairs of the United States.

HIST 2605  Turning Points in United States History 1  3 s.h.
Key episodes in the social, economic, political and cultural developments of the United States to 1877, exploring how diverse peoples shaped the growing nation.
Prereq.: Readiness for ENGL 1550.
Cross-listed: AMER 2606.
Gen Ed: Social Science.

HIST 2606  Turning Points in United States History 2  3 s.h.
Key episodes in the social, economic, political and cultural developments of the United States since 1877, exploring how diverse peoples shaped the growing nation.
Prereq.: Readiness for ENGL 1550.
Cross-listed: AMER 2606.
Gen Ed: Domestic Diversity, Social Science, Social and Personal Awareness.

HIST 3700  The Atlantic World  3 s.h.
Development of the Atlantic rim from 1450 to 1700 with emphasis on the processes of exploration, cultural contact, and colonization. Cross-cultural focus on West Africa, the Caribbean and eastern North America.
Prereq.: HIST 1511 or HIST 2605.

HIST 3702  Early America  3 s.h.
From the first English interactions with the Native Americans and Africans, to the rebellion for Independence, to the struggles over the creation of the Constitution.
Prereq.: HIST 2605.

HIST 3703  Nineteenth Century America  3 s.h.
United States history from the War of 1812 through the Spanish-American War. Emphasis on constitutional developments, the issue of slavery, the Civil War and Industrialization.
Prereq.: HIST 1501 or HIST 2605 or HIST 2606.

HIST 3704  Age of Jefferson and Jackson  3 s.h.
Early 19th century America, with emphasis on politics and culture before 1845.
Prereq.: HIST 2605.

HIST 3706  Age of Lincoln and Grant  3 s.h.
The period from 1845 to 1877, including the development of the North-South conflict, the war years, and the Reconstruction.
Prereq.: HIST 2605.

HIST 3710  Incorporation of America, 1877-1919  3 s.h.
The history of the United States from Reconstruction to the Treaty of Versailles, focusing on the transformation from a rural, agricultural nation to an urban, industrial nation. The nation’s political, social, economic and cultural development, along with foreign policy.
Prereq.: HIST 2606.

HIST 3712  United States in Crisis: 1900-1945  3 s.h.
Covers events in the United States from 1900 through the end of World War II. Social, political and cultural history of the Progressive era, World Wars I and II, the Roaring Twenties, the Great Depression and the New Deal.
Prereq.: HIST 1501 or HIST 2606.

HIST 3713  Cold War America: 1945-1990  3 s.h.
An exploration of U.S. efforts to grapple with the Soviet Union, civil rights and equality, the role of government, changing sexual and social mores, the welfare state, and deindustrialization.
Prereq.: HIST 2606.

HIST 3715  Introduction to Historic Preservation  3 s.h.
Introduction to the field of historic preservation. Provides historical context for the discipline as well as a basic grounding in the concepts and opportunities of the field.
Prereq.: HIST 2605 and HIST 2606.

HIST 3717  Constitutional History of the United States  3 s.h.
The development of the American constitutional system from colonial times to the present.
Prereq.: HIST 2605 or HIST 2606.

HIST 3723  History of American Sports  3 s.h.
An examination of sports within America from earliest times to the present. Special emphasis on the manner in which sports and society have influenced each other, such as racial and class relationships, social mobility, politics, religion, and foreign policy.
Prereq.: HIST 2605 or HIST 2606.

HIST 3724  Colonial Latin America  3 s.h.
Latin America from pre-Hispanic times to the independence, wars including both Spanish America and Brazil. Examines colonial institutions and the experiences of indigenous people, people of African descent, and women.
Prereq.: HIST 1512 or HIST 2605.

HIST 3725  Modern Latin America  3 s.h.
History of Latin America from the independence wars to the present. Examines political and economic developments as well as the social history of indigenous people, people of African descent, and women. U.S. influence in the region is also studied.
Prereq.: HIST 1512 or HIST 2606.

HIST 3726  History of Women in the United States  3 s.h.
Analysis of the various roles and contributions of women in American history.
Prereq.: HIST 2605 or HIST 2606.

HIST 3727  Mexico and the Caribbean  3 s.h.
Includes Mexico, Colombia, Venezuela, and the Central American republics. Special consideration is given to 20th century Mexico.
Prereq.: HIST 2605 or HIST 1512, or consent of instructor.

HIST 3730  The Black Experience in American History  3 s.h.
A historical study of Black people’s roles in and contribution to the political, social, and economic development of American society.
Prereq.: HIST 2605 or HIST 2606, or AFST 2600.

HIST 3731  History of African American Mayors  3 s.h.
Study of African American mayors, beginning with the 1967 elections of Carl Stokes and Richard Hatcher to the present. Focus is on why African Americans were elected mayors, and what benefits they contributed to the African American community as well as to their respective cities.
Prereq.: HIST 2606 or AFST 2600.
HIST 3734 History of Organized Crime in the United States 3 s.h.
The history or organized crime emphasizes the organization of the criminal underworld, the ethnic, racial, and religious composition of criminal groups, and the impact of organized crime on prostitution, gambling, Prohibition, and drugs.
Prereq.: HIST 2605 or HIST 2606.

HIST 3736 History of American Cities 3 s.h.
City politics, social change, ethnic and racial issues, industrialization, and city planning during the 19th and 20th centuries. Other issues include the provision of city services, the rivalry between cities, and the development of the federal-urban relationship.
Prereq.: HIST 2605 or HIST 2606.

HIST 3740 The Vietnam War 3 s.h.
American involvement in Southeast Asia from the days of French rule to the fall of the Saigon government and beyond. Includes the war debate at home, and other consequences of the war.
Prereq.: HIST 1512, HIST 2606.

HIST 3741 Diplomatic History of the United States 1 3 s.h.
A study of American foreign relations as determined by interaction between domestic and international pressures (1) to 1900 and (2) since 1900.
Prereq.: HIST 2605.

HIST 3742 Diplomatic History of the United States 2 3 s.h.
A study of American foreign relations as determined by interaction between domestic and international pressures (1) to 1900 and (2) since 1900.
Prereq.: HIST 2606.

HIST 3743 Labor in United States History 3 s.h.
Traces the transformation of American workers and the impact of the labor movement upon the United States. Emphasizes the diversity of the working class and the historical context of the of the political and social implications of the labor movement.
Prereq.: HIST 2606.

HIST 3744 The History of American Business 3 s.h.
An examination of the growth and structural development of American business and its relationship to government from colonial times to the present with emphasis on the 20th century.
Prereq.: HIST 2605 or HIST 2606.

HIST 3745 History of Jewish Labor 3 s.h.
Examines Jewish labor history in Europe, the United States, and Israel. Explores the social history of the worker, gender and national differences, living and working conditions, as well as labor movements and worker political mobilization.
Prereq.: HIST 1512 or HIST 2606.

HIST 3747 History of Appalachia 3 s.h.
From 18th century settlement to present, emphasizing images of the region and its people, and focusing on issues of economic development, folk culture, religion, race, gender and outmigration.
Prereq.: HIST 2605 or HIST 2606.

HIST 3748 History of Ohio 3 s.h.
The important events and movements that have shaped Ohio history in the social, economic, religious and political areas.
Prereq.: HIST 2605 or HIST 2606.

HIST 3749 History of African-United States Relations 3 s.h.
Survey of African-U.S. relations from the transatlantic slave trade to the present with emphasis on the 20th century.
Prereq.: HIST 2606 or HIST 1512, or consent of instructor.

HIST 3750 History of Modern Africa 3 s.h.
The impact of colonialism on the peoples of 20th century Africa, focusing on subSahara: Colonialism, colonial administration, urbanization, nationalism, pan-Africanism, decolonization and the challenges of modern Africa.
Prereq.: HIST 1512 or consent of instructor.

HIST 3751 History of South Africa 3 s.h.
From the beginnings of the 19th century to the present.
Prereq.: HIST 1512, HIST 2605, HIST 2606.

HIST 3752 Ancient History 1 3 s.h.
From the Neolithic Revolution to the Peloponnesian Wars. Intensive study of civilizations of Mesopotamia and Egypt, as well as Hellenic history.
Prereq.: HIST 1511.

HIST 3753 Ancient History 2 3 s.h.
The Hellenic Period to the fall of Rome. Intensive study of the Age of Alexander and the Roman Republic.
Prereq.: HIST 1511.

HIST 3755 Early Medieval Civilization 3 s.h.
A political, economic, intellectual and cultural history which traces events and developments throughout Europe from the collapse of the Ancient World to the beginning of the High Middle Ages.
Prereq.: HIST 1511.

HIST 3756 High Medieval Civilization 3 s.h.
A political, economic, intellectual and cultural history which traces events and developments throughout Europe during the High Middle Ages (eleventh through fifteenth centuries).
Prereq.: HIST 1511.

HIST 3757 History of Medicine 3 s.h.
Practices and theories of healing, and their relation to social and intellectual context, from ancient times to the present.
Prereq.: HIST 1511 or HIST 1512, or a social science course.

HIST 3758 Renaissance Europe 3 s.h.
A survey of European history from the end of the High Middle Ages to the 16th century. Emphasizes the rise of humanism and of Renaissance culture in Italy, its dissemination beyond the Alps as well as the development of national states and the flowering of the Late Medieval tradition in western and eastern Europe.
Prereq.: HIST 1511.

HIST 3759 The Reformation Era 3 s.h.
The history of Europe from the Lutheran Revolt to the Peace of Westphalia in 1648. Major themes of study are the causes of the Reformation, the impact of Luther, Calvin and the Radical Reformation, the Catholic Reform movement, the Wars of Religion, and the rise of the modern secular states.
Prereq.: HIST 1512.

HIST 3760 The Age of Louis XIV 3 s.h.
The history of Europe from 1600 to the outbreak of the French Revolution in 1789. Emphasis on France under Louis XIV and Louis XV, Old Regime society, and the intellectual creativity of the Eighteenth-Century Enlightenment. Also focuses on the widening confrontation between science and religion, the growth of Europe’s overseas empire, and the emergence of the modern nation-state.
Prereq.: HIST 1512.

HIST 3761 The French Revolution and Napoleon (1789-1815) 3 s.h.
The French Revolution is examined in detail, especially from its outbreak to the fall of Robespierre. The last portion deals with the rise of Napoleon, his political role, his military campaigns, the reconstruction of Europe, and his fall at Waterloo.
Prereq.: HIST 1512.

HIST 3762 The Second World War 3 s.h.
An examination of the war’s diplomatic and ideological origins; social, economic, and political factors; and strategic, tactical, and technological dimensions of the conflict in all major theaters.
Prereq.: HIST 1512 or HIST 2606.

HIST 3763 Modern France, 1815 to Present 3 s.h.
France from the fall of Napoleon to the present. Major cultural, intellectual, and political themes of the period. Impact of the two World Wars, France’s post-war revival, the student riots of 1968, and the changes which have transformed French politics and society in the 1980s.
Prereq.: HIST 1512.
HIST 3764  Modern Europe, 1715 to the Present  3 s.h.
A survey of European history from the Enlightenment to the European Union. Themes include the development and debate surrounding European civilization’s emphasis on individuality, technology, capitalism, class, war, and progress.
Prereq.: HIST 1512.

HIST 3765  Europe from the Congress of Vienna to the Franco-Prussian War (1815-1871)  3 s.h.
Such movements as Nationalism, the impact of the Industrial Revolution, Marxism, the growth of Democracy, Liberalism and Conservatism, Romanticism and Realism, Reform and Revolution, from the main themes of the period. The course is divided into two historical periods, from 1815 to the Revolution of 1848, and from 1848 to 1871 with the emphasis on the unification of Italy and of Germany and the New Europe that arose as a consequence.
Prereq.: HIST 1512.

HIST 3766  Europe from the Franco-Prussian War to World War I  3 s.h.
The impact of the Paris Commune; revolutionary movements and their contradictions; imperialism, political anti-Semitism, and the images of war; the Bismarckian international order and its suicide.
Prereq.: HIST 1512.

HIST 3767  Europe from World War I to the Present  3 s.h.
War, revolutions, and the European order; Versailles and its contradictions; the Fascist response to Communism and Depression; the interaction of Democracies, Fascism, and Stalinism in the making of World War II and the Cold War.
Prereq.: HIST 1512.

HIST 3768  Modern Germany  3 s.h.
Unification and modernization; scientific, technological, and cultural splendors; world power and disaster; Nazism, the Holocaust, and German society.
Prereq.: HIST 1512.

HIST 3770  Asia to 1500  3 s.h.
Political, economic, religious, artistic, and philosophical developments in India, China and along the Silk Road, from ancient times to 1500 C.E.
Prereq.: HIST 1511 or ASST 1550.

HIST 3772  History of Modern China  3 s.h.
China from the mid-19th century to date, with emphasis on Western impact, industrialization, intellectual trends, the Revolution of 1911, national reconstruction, student movements, the rise of Communism, and the contemporary scene.
Prereq.: HIST 1512 or ASST 1550 or consent of instructor.

HIST 3774  Global Environmental History: Topics and Methods  3 s.h.
The historical development and diversity of ideas and actions regarding the interaction of human societies and the natural environment. From 1492 to the present, with particular emphasis on the nineteenth and twentieth centuries. Economic growth and resource depletion. Emergence and development of conservation, environmentalism, ecology. Ideas, events, and institutions. Historiography and methods of environmental history.
Prereq.: HIST 1511, HIST 1512, HIST 2605 or HIST 2606.

HIST 3775  Global Industrial Revolution  3 s.h.
Major themes and events in the origins and global diffusion of industrialization from the 18th to the 21st centuries. The Industrial Revolution and associated changes in technology, society, culture, economy, geo-politics, environment, and public health.
Prereq.: HIST 1512 or HIST 2605 or HIST 2606.

HIST 3776  History of Modern Japan  3 s.h.
Japan’s history from the Meiji Restoration to date, including the industrialization, the party movement, intellectual development, the rise and fall of militarism, postwar reconstruction, and current problems.
Prereq.: HIST 2662 or ASST 1550 or consent of instructor.

HIST 3778  Russia to 1855  3 s.h.
History of Russia from its ninth century origins to the eve of the Great Reforms of Tsar Alexander II. Surveys political, social, cultural, and intellectual developments, the Orthodox Church, and Russian expansion and colonization in Siberia and Alaska.
Prereq.: HIST 1511 or HIST 1512.

HIST 3779  Russia 1855 to Present  3 s.h.
The Russian Empire from the Great Reforms ofAlexander II to its collapse during WWI, the Revolutions of 1917, the rise and fall of the Soviet Union (1922-1991), and Soviet successor states to the present.
Prereq.: HIST 1512.

HIST 3780  History of Eastern Europe  3 s.h.
The histories of the nations that have made up Central and Eastern Europe from the earliest times to their present, and their contributions to world civilization.
Prereq.: HIST 1511 or HIST 1512.

HIST 3782  History of the Balkans  3 s.h.
Southeastern Europe from the 4th century to the present, including the impact of the Byzantine and Ottoman Empires and the two World Wars.
Prereq.: HIST 1511 or HIST 1512.

HIST 3783  Britain and Its Empire: 1668 to the Present  3 s.h.
An integrative history of Britain and its empire, from the Glorious Revolution to the Brexit vote in 2016. Focus is on how the acquisition of an empire influenced the development of British liberal politics, industrial and multicultural society, economic morality, and a diverse and world-ranging culture.
Prereq.: HIST 1512.

HIST 3784  Britain and Its Empire 2: 1870-Present  3 s.h.
An integrative history of Britain and its empire, from the opening of the Suez Canal to the present. Emphasis on how Britain’s decline as a world political, diplomatic, military and industrial power impacted its world empire during the twentieth century, noting how the empire changed Britain itself in the process.
Prereq.: HIST 1512.

HIST 3785  The Mediterranean World: Modern Italy, 1815-Present  3 s.h.
Survey of Italian history from the Risorgimento to the present. Emphasis on the reasons for the late emergence of Italian nationalhood, the rise of Italian nationalism, unification, the weakness of Italian democracy, the rise of Fascism, and the political instability Italians have experienced since 1945.
Prereq.: HIST 1512.

HIST 3787  History of Women in Europe  3 s.h.
Analysis of the various roles and contributions of women in European history from the Renaissance to the present.
Prereq.: HIST 1512.

HIST 3788  The Holocaust  3 s.h.
This course explores the history and consequences of the Holocaust, the genocide of Jews and other communities by the Nazis and their collaborators. We situate the Holocaust in a number of contexts, including the history of racism and antisemitism, the politics of colonialism and nationalism, and global warfare. Other topics include collaboration and resistance, the concentration-camp system, multiple victim groups, postwar justice, and a focus on gender.
Prereq.: HIST 1512 or HIST 2600.

HIST 3789  Jewish History  3 s.h.
Where do Jews come from? What has it meant to live in the world as a Jew? This course provides an overview of the Jewish experience and of Jewish identities from ancient to modern times, in locations around the world. Carefully selected “episodes” introduce students to the great variety within Jewish history and culture. We will pay special attention to the complex and ever-shifting relationships between Jews and the majority non-Jewish populations among whom they have lived, as well as to the connections, both real and imagined, between Jews over long distances and across time. (The Holocaust is taught in a separate course.).
Prereq.: HIST 1511 or HIST 1512 or HIST 2600.
HIST 3790 Medieval Britain 3 s.h.
From the Celtic times to 1485. Emphasizes the political and cultural evolution of the British people before and after the Norman Conquest, including the creation of the English identity, the development of constitutional monarchy, the propaganda value of architecture, art, and literature, and the role of the Church.
Prereq.: HIST 1511.

HIST 3792 History of Ireland 3 s.h.
Irish history from St. Patrick to the Good Friday Agreement. Emphasis is on Ireland’s relationship with Britain, Europe and the United States, and its troubled status as colony, occupied nation and part of the United Kingdom.
Prereq.: HIST 1512.

HIST 3793 Tudor-Stuart Britain 3 s.h.
England, Scotland, Wales, and Ireland from the end of the War of the Roses to the ascension of George I to the British throne in 1714. Emphasis on the development of the centralized Tudor state, colonization of the New World and India, the English Civil War and Glorious Revolution, European wars for naval supremacy, and the culture of the Shakespearean age.
Prereq.: HIST 1512.

HIST 3794 The First World War 3 s.h.
An examination of the origins of the war, the social, economic, intellectual and political repercussions, and the technical and military developments.
Prereq.: HIST 1512.

HIST 3795 The World since 1945 3 s.h.
Global developments including the Cold War, decolonization and economic dependency in the non-western world; militarism and terrorism; pollution; and the internationalism of the world.
Prereq.: HIST 1512.

HIST 3796 Genocide and Mass Murder 3 s.h.
The origins, definitions, causes and forms of genocide. Case studies will be drawn from across geographical regions and time periods such as Armenia, the Holocaust, Cambodia, the former Yugoslavia, Rwanda and the Sudan.
Prereq.: HIST 1512 or consent of instructor.

HIST 3797 Middle East 1: The Islamic Centuries 3 s.h.
From Muhammad to the collapse of the Ottoman Empire. Intensive study of the medieval Islamic caliphates, Crusades, Turks, and European imperialism.
Prereq.: HIST 1511 or 2661.

HIST 3798 Middle East 2: The Modern Period 3 s.h.
Prereq.: HIST 1512 or HIST 2600.

HIST 3799 Lessons of the Holocaust from the US Holocaust Memorial Museum 3 s.h.
The Holocaust weighs heavily on contemporary culture. This course explores how individuals and communities have sought to make sense of that atrocity; the lessons they have drawn from it; and how they have invoked the Holocaust to advance various ideologies and politics. We will learn to analyze how moral arguments are made and to situate them in their historical and intellectual contexts. The course requires a supervised and free visit to the U.S. Holocaust Memorial Museum in Washington, D.C., in addition to coursework.
Prereq.: HIST 1500 or HIST 2600.

HIST 4801 Select Problems in American History 3 s.h.
Specific problems in American history in such areas as economics, political theory, and cultural and intellectual history. May be repeated with different content.
Prereq.: Consent of instructor.

HIST 4809 Documentation and Interpretation of Historic Sites 3 s.h.
Methods of documenting historic properties especially as related to the National Register of Historic Places. Includes interpretation of historic sites for public exhibit.
Prereq.: HIST 3715.

HIST 4811 Practicum in Historic Preservation 3 s.h.
Experience in historic preservation through student participation in a wide variety of historic preservation projects. Prepares students for internships outside the university.
Prereq.: HIST 3715 and permission of Historic Preservation Committee.

HIST 4812 Historic Preservation Internship 3 s.h.
Practical application of principles and methods in the field of historic preservation with the goal of producing a completed project. Internship to be selected by student in conjunction with program director. May be repeated once.
Prereq.: HIST 3715 and approval of internship committee.

HIST 4851 Select Problems in European History 3 s.h.
Specific problems in European history in such areas as economics, political theory, and cultural and intellectual history. May be repeated with different content.
Prereq.: Consent of instructor.

HIST 4860 Select Problems in Transnational History 3 s.h.
Transnational issues in African, Asian, Latin American, and/or Middle Eastern history in such areas as economic, political, social, cultural and intellectual history. May be repeated with different content.
Prereq.: Consent of the instructor.

HIST 4860A Select Problems in Transnational History Intro to Jewish Studies 3 s.h.
Transnational issues in African, Asian, Latin American, and/or Middle Eastern history in such areas as economic, political, social, cultural and intellectual history. May be repeated with different content.
Prereq.: Consent of the instructor.

HIST 4860C Select Problems in Transnational History (Historiography) 3 s.h.
Transnational issues in African, Asian, Latin American, and/or Middle Eastern history in such areas as economic, political, social, cultural and intellectual history. May be repeated with different content.
Prereq.: Consent of the instructor.

HIST 4861 Select Topics in Jewish Studies 3 s.h.
This course will cover themes and questions in Jewish studies as selected and defined by the instructor. It will be a vehicle for delivering timely courses that are responsive to student needs and interest. It will also serve in the development of new and permanent courses at YSU. May be repeated up to 6 semester hours. Cross-Listed: JUDC 4861.
Prereq.: HIST 2600.
HIST 4870  Senior Research Seminar  3 s.h. 
A seminar that requires the writing of an extensive paper based mainly on primary material. All history majors must take this course.  
**Prereq.:** Senior standing and completion of four upper-division history courses with a grade of "C" or better.  
**Gen Ed:** Capstone.

HIST 5806  American Architectural History 1  3 s.h.  
Development of structural styles and trends within the United States, focusing on formal architectural styles.  
**Prereq.:** HIST 2605 and HIST 2606.

HIST 5807  American Architectural History 2  3 s.h.  
Development of vernacular, folk, and industrial architecture in the United States. Focus is on local variants with emphasis on 20th Century specimens. Field trips will view representative building types, especially housing.  
**Prereq.:** HIST 5806.

HIST 5810  Conservation of the Historic Built Environment  3 s.h.  
The theory and practice of preserving and rehabilitating all aspects of the historic built environment. Provides broad exposure through field experience.  
**Prereq.:** HIST 3715.

**Judaic Studies**

JUDC 4851  Jewish Studies Internship  3 s.h.  
Students receive course-credit for interning at a Jewish organization, community center, or synagogue; projects serving Jews or Jewish communities at non-Jewish organizations; or for educational or research initiatives with a focus on Jewish themes. May be repeated up to 6 semester hours for minor credit with permission from the CJHS Director.  
**Prereq.:** HIST 2600.

JUDC 4861  Select Topics in Jewish History  3 s.h.  
This course will cover themes and questions in Jewish studies as selected and defined by the instructor. It will be a vehicle for delivering timely courses that are responsive to student needs and interest. It will also serve in the development of new and permanent courses at YSU. May be repeated up to 6 semester hours.  
**Prereq.:** HIST 2600.

JUDC 4871  Directed Readings in Jewish Studies  1-3 s.h.  
An opportunity for undergraduates to explore selected themes, questions, or debates in Jewish studies scholarship or to study a corpus of Jewish literature. Students may use this course to prepare for future research projects or graduate school. May be repeated up to 6 semester hours.  
**Prereq.:** HIST 2600.

**Bachelor of Arts in History**

In addition to completing the requirements listed on the curriculum sheet (p. 228), a history major must provide an essay examination, a book review, a research paper, and one additional paper for a portfolio (all produced in history classes) that will be maintained in the Department of Humanities and Social Sciences. The essay examination should be from an upper-division course. The book review should include:

- a title page
- bibliographic entry at the beginning
- content analysis and evaluation with a minimum of 1,000 words, typed in a 10-12 font, double-spaced, and one-inch margins

The research paper will be based on primary or secondary sources with a minimum of 3,500 words, typed in a 10-12 font, double-spaced with end notes or footnotes, bibliographic entries based on Chicago Manual of Style, a title page, and one-inch margins. A second paper from an upper-division class is also to be included of at least 1,500 words.

Students transferring 20 or more semester hours in history to Youngstown State University from another institution must meet the group requirements to obtain a major in History for graduation. At least five of the courses in Groups B, C, and D (see curriculum sheet) must be taken at Youngstown State University.

It is recommended that the student in choosing electives should acquire as broad a background as possible in the social sciences and the humanities. Particular attention is called to courses offered in English, Economics, Political Science, Philosophy, Art, Music, Geography, and Sociology, and to the humanities courses. Students contemplating graduate work in history should consider taking more foreign language courses than the minimum necessary to meet the general degree requirement. Finally, the student is reminded that the Department of Humanities and Social Sciences takes seriously the University’s emphasis on the importance of adequate competence in the English language (See Proficiency in English, in the Academic Policies and Procedures section of the Undergraduate Catalog); when there is need, students majoring in history should include in their programs advanced composition courses and courses in speech.

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 1-2
or HONR 1500 | Intro to Honors | 1-2

**General Education Requirements**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics Requirement**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Humanities (6 s.h.)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<td>7</td>
</tr>
<tr>
<td>Social Science (6 s.h.)</td>
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<td>6</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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**Foreign Language Requirement**

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
<td>4</td>
</tr>
<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
<td>4</td>
</tr>
</tbody>
</table>

**Major Requirements**

**Group A - Survey Courses**

Select one of the following Sections: 12

<table>
<thead>
<tr>
<th>Section 1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1511</td>
<td>World Civilization to 1500</td>
</tr>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500</td>
</tr>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History 1</td>
</tr>
<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 2:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1511H</td>
<td>Honors World Civilization to 1500</td>
</tr>
<tr>
<td>HIST 1512H</td>
<td>Honors World Civilization from 1500</td>
</tr>
<tr>
<td>HIST 2605H</td>
<td>Honors Turning Points in United States History 1</td>
</tr>
<tr>
<td>HIST 2606H</td>
<td>Honors Turning Points in United States History 2</td>
</tr>
</tbody>
</table>

Select eight courses from the following with no more than three from each group: 24

**Group B - American History**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2601</td>
<td>American Military History</td>
</tr>
<tr>
<td>HIST 3700</td>
<td>The Atlantic World 1</td>
</tr>
<tr>
<td>HIST 3702</td>
<td>Early America</td>
</tr>
<tr>
<td>HIST 3703</td>
<td>Nineteenth Century America</td>
</tr>
<tr>
<td>HIST 3704</td>
<td>Age of Jefferson and Jackson</td>
</tr>
<tr>
<td>HIST 3706</td>
<td>Age of Lincoln and Grant</td>
</tr>
<tr>
<td>HIST 3710</td>
<td>Incorporation of America, 1877-1919</td>
</tr>
<tr>
<td>HIST 3712</td>
<td>United States in Crisis: 1900-1945</td>
</tr>
</tbody>
</table>

[1] Some courses may be repeated up to 6 semester hours.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 3713</td>
<td>Cold War America: 1945-1990</td>
</tr>
<tr>
<td>HIST 3715</td>
<td>Introduction to Historic Preservation</td>
</tr>
<tr>
<td>HIST 3717</td>
<td>Constitutional History of the United States</td>
</tr>
<tr>
<td>HIST 3723</td>
<td>History of American Sports</td>
</tr>
<tr>
<td>HIST 3726</td>
<td>History of Women in the United States</td>
</tr>
<tr>
<td>HIST 3730</td>
<td>The Black Experience in American History</td>
</tr>
<tr>
<td>HIST 3731</td>
<td>History of African American Mayors</td>
</tr>
<tr>
<td>HIST 3734</td>
<td>History of Organized Crime in the United States</td>
</tr>
<tr>
<td>HIST 3736</td>
<td>History of American Cities</td>
</tr>
<tr>
<td>HIST 3740</td>
<td>The Vietnam War ¹</td>
</tr>
<tr>
<td>HIST 3741</td>
<td>Diplomatic History of the United States ¹</td>
</tr>
<tr>
<td>HIST 3742</td>
<td>Diplomatic History of the United States ²</td>
</tr>
<tr>
<td>HIST 3743</td>
<td>Labor in United States History</td>
</tr>
<tr>
<td>HIST 3744</td>
<td>The History of American Business</td>
</tr>
<tr>
<td>HIST 3747</td>
<td>History of Appalachia</td>
</tr>
<tr>
<td>HIST 3748</td>
<td>History of Ohio</td>
</tr>
<tr>
<td>HIST 3762</td>
<td>The Second World War</td>
</tr>
<tr>
<td>HIST 4801</td>
<td>Select Problems in American History</td>
</tr>
<tr>
<td>HIST 4811</td>
<td>Practicum in Historic Preservation</td>
</tr>
<tr>
<td>HIST 4812</td>
<td>Historic Preservation Internship</td>
</tr>
<tr>
<td>HIST 4815</td>
<td>American Material Culture</td>
</tr>
<tr>
<td>HIST 5806</td>
<td>American Architectural History ¹</td>
</tr>
<tr>
<td>HIST 5807</td>
<td>American Architectural History ²</td>
</tr>
<tr>
<td>HIST 5810</td>
<td>Conservation of the Historic Built Environment</td>
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**Group C - European History**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HIST 3745</td>
<td>History of Jewish Labor</td>
</tr>
<tr>
<td>HIST 3752</td>
<td>Ancient History ¹</td>
</tr>
<tr>
<td>HIST 3753</td>
<td>Ancient History ²</td>
</tr>
<tr>
<td>HIST 3755</td>
<td>Early Medieval Civilization</td>
</tr>
<tr>
<td>HIST 3756</td>
<td>High Medieval Civilization</td>
</tr>
<tr>
<td>HIST 3757</td>
<td>History of Medicine</td>
</tr>
<tr>
<td>HIST 3758</td>
<td>Renaissance Europe</td>
</tr>
<tr>
<td>HIST 3759</td>
<td>The Reformation Era</td>
</tr>
<tr>
<td>HIST 3760</td>
<td>The Age of Louis XIV</td>
</tr>
<tr>
<td>HIST 3761</td>
<td>The French Revolution and Napoleon (1789-1815)</td>
</tr>
<tr>
<td>HIST 3762</td>
<td>The Second World War</td>
</tr>
<tr>
<td>HIST 3763</td>
<td>Modern France, 1815 to Present</td>
</tr>
<tr>
<td>HIST 3764</td>
<td>Modern Europe, 1715 to the Present</td>
</tr>
<tr>
<td>HIST 3765</td>
<td>Europe from the Congress of Vienna to the Franco-Prussian War (1815-1871)</td>
</tr>
<tr>
<td>HIST 3766</td>
<td>Europe from the Franco-Prussian War to World War I</td>
</tr>
<tr>
<td>HIST 3767</td>
<td>Europe from World War I to the Present</td>
</tr>
<tr>
<td>HIST 3769</td>
<td>Modern Germany</td>
</tr>
<tr>
<td>HIST 3774</td>
<td>Global Environmental History: Topics and Methods ¹</td>
</tr>
<tr>
<td>HIST 3777</td>
<td>Russia to 1855</td>
</tr>
<tr>
<td>HIST 3779</td>
<td>Russia 1855 to Present ¹</td>
</tr>
<tr>
<td>HIST 3800</td>
<td>History of Eastern Europe</td>
</tr>
<tr>
<td>HIST 3822</td>
<td>History of the Balkans</td>
</tr>
<tr>
<td>HIST 3832</td>
<td>Britain and Its Empire: 1688 to the Present</td>
</tr>
<tr>
<td>HIST 3842</td>
<td>Britain and Its Empire 2: 1870-Present</td>
</tr>
<tr>
<td>HIST 3855</td>
<td>The Mediterranean World: Modern Italy, 1815-Present</td>
</tr>
<tr>
<td>HIST 3877</td>
<td>History of Women in Europe</td>
</tr>
<tr>
<td>HIST 3888</td>
<td>The Holocaust</td>
</tr>
<tr>
<td>HIST 3900</td>
<td>Medieval Britain</td>
</tr>
<tr>
<td>HIST 3942</td>
<td>The First World War</td>
</tr>
<tr>
<td>HIST 4850</td>
<td>International Area Study ¹</td>
</tr>
<tr>
<td>HIST 4851</td>
<td>Select Problems in European History</td>
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</table>

**Group D - Transnational History**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 3700</td>
<td>The Atlantic World ¹</td>
</tr>
<tr>
<td>HIST 3724</td>
<td>Colonial Latin America</td>
</tr>
<tr>
<td>HIST 3725</td>
<td>Modern Latin America</td>
</tr>
<tr>
<td>HIST 3727</td>
<td>Mexico and the Caribbean</td>
</tr>
<tr>
<td>HIST 3740</td>
<td>The Vietnam War</td>
</tr>
<tr>
<td>HIST 3749</td>
<td>History of African-United States Relations</td>
</tr>
<tr>
<td>HIST 3750</td>
<td>History of Modern Africa</td>
</tr>
<tr>
<td>HIST 3751</td>
<td>History of South Africa</td>
</tr>
<tr>
<td>HIST 3770</td>
<td>Asia to 1500</td>
</tr>
<tr>
<td>HIST 3772</td>
<td>History of Modern China</td>
</tr>
<tr>
<td>HIST 3774</td>
<td>Global Environmental History: Topics and Methods</td>
</tr>
<tr>
<td>HIST 3775</td>
<td>Global Industrial Revolution</td>
</tr>
<tr>
<td>HIST 3776</td>
<td>History of Modern Japan</td>
</tr>
<tr>
<td>HIST 3779</td>
<td>Russia 1855 to Present ¹</td>
</tr>
<tr>
<td>HIST 3789</td>
<td>Jewish History</td>
</tr>
<tr>
<td>HIST 3795</td>
<td>The World since 1945</td>
</tr>
<tr>
<td>HIST 3796</td>
<td>Genocide and Mass Murder</td>
</tr>
<tr>
<td>HIST 3797</td>
<td>Middle East 1: The Islamic Centuries</td>
</tr>
<tr>
<td>HIST 3798</td>
<td>Middle East 2: The Modern Period</td>
</tr>
<tr>
<td>HIST 4850</td>
<td>International Area Study</td>
</tr>
<tr>
<td>HIST 4860</td>
<td>Select Problems in Transnational History</td>
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**Capstone**

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<tr>
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<tbody>
<tr>
<td>HIST 4870</td>
<td>Senior Research Seminar</td>
</tr>
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</table>

Total Semester Hours = 39 s.h.

¹ No course can count in more than one group. All courses must be passed with a grade of C or better. Courses may count in only one category: Six courses in Groups B, C, and D must be at 3700 level or higher.

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>HIST 1511</td>
<td>World Civilization to 1500</td>
</tr>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500</td>
</tr>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History ¹</td>
</tr>
<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History ²</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
</tr>
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<td>Foreign Language 1550</td>
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Semester Hours 17-18

**Spring**

<table>
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<tr>
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<tbody>
<tr>
<td>HIST 1511</td>
<td>World Civilization to 1500</td>
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<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500</td>
</tr>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History ¹</td>
</tr>
<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History ²</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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Semester Hours 16

**Year 2**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 37XX Gr B America</td>
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<tr>
<td>HIST 37XX Gr C Europe</td>
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<tr>
<td>Minor 15XX/26XX course</td>
<td></td>
</tr>
<tr>
<td>HUM 15XX/26XX</td>
<td></td>
</tr>
</tbody>
</table>

Semester Hours
Professionals in this fast-growing field find employment with consulting firms, battlefields and business districts, and even entire neighborhoods. America's built environment: buildings and bridges, farms and factories, Historic preservation specialists encourage the renovation and re-use of

Certificate in Historic Preservation

Learning Outcomes

1. Students will demonstrate comprehension of the basic concepts that guide the historian's work, by understanding: the concepts of historiography and that historical interpretation is not fixed but changes over time; the significance of chronologies and the impact of cause and effect; and the importance and impact of cultural diversity on the past and its relevance in the present.

2. Students will demonstrate the skills necessary for the historian to analyze information and report findings effectively, by recognizing the difference between primary and secondary resources and being able to critically read and analyze their content; by effectively communicating in written and oral media; and by exhibiting satisfactory critical-thinking and synthesis skills.

3. Students will demonstrate the ability to translate traditional historical scholarship into media meant primarily for non-academic audiences.

Certificate in Historic Preservation

Historic preservation specialists encourage the renovation and re-use of America's built environment: buildings and bridges, farms and factories, battlefields and business districts, and even entire neighborhoods. Professionals in this fast-growing field find employment with consulting firms or with local, state, or national preservation groups, museums, or government agencies.

Youngstown State University offers a Certificate in Historic Preservation for students at either the undergraduate or graduate level. Classes give students training in historic research skills plus direct experience in real-world preservation tasks.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3715</td>
<td>Introduction to Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 5806</td>
<td>American Architectural History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 5807</td>
<td>American Architectural History 2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 5810</td>
<td>Conservation of the Historic Built Environment</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4811</td>
<td>Practicum in Historic Preservation (group project in the community)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4812</td>
<td>Historic Preservation Internship</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3736</td>
<td>History of American Cities</td>
<td></td>
</tr>
<tr>
<td>HIST 3748</td>
<td>History of Ohio</td>
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<tr>
<td>HIST 4815</td>
<td>American Material Culture</td>
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<tr>
<td>GEOG 3726</td>
<td>Urban Geography</td>
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</tr>
<tr>
<td>ANTH 4890</td>
<td>Advanced Topics in Archaeology</td>
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<tr>
<td>ANTH 4825</td>
<td>New World Archaeology: Topics</td>
<td></td>
</tr>
<tr>
<td>MRCH 4870</td>
<td>Global Fashion Economy</td>
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</tbody>
</table>

Other courses may be substituted with permission of the department. In addition, hands-on instruction in preservation technology is available through arrangement with nationally renowned Belmont Technical College. Undergraduates may earn the certificate as part of a history major or as a minor supplementing work in a related field such as art history, anthropology, geography, or engineering.

Learning Outcomes

1. Students will demonstrate the skills necessary for the historian to analyze information and report findings effectively, by recognizing the difference between primary and secondary resources and being able to critically read and analyze their content; by effectively communicating in written and oral media; and by exhibiting satisfactory critical-thinking and synthesis skills.

2. Students will demonstrate comprehension of the basic concepts that guide the historian's work, by understanding: the concepts of historiography and that historical interpretation is not fixed but changes over time; the significance of chronologies and the impact of cause and effect; and the importance and impact of cultural diversity on the past and its relevance in the present.

3. Students will demonstrate the ability to translate traditional historical scholarship into media meant primarily for non-academic audiences.

Minor in Applied History

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>HIST 2605</td>
<td>Turning Points in United States History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
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<tr>
<td>HIST 5806</td>
<td>American Architectural History 1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 5807</td>
<td>American Architectural History 2</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4812</td>
<td>Historic Preservation Internship</td>
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</tr>
<tr>
<td>HIST 5810</td>
<td>Conservation of the Historic Built Environment</td>
<td>3</td>
</tr>
</tbody>
</table>
Minor in History

**Course** | **Title** | **S.H.**
---|---|---
HIST 1511 | World Civilization to 1500 | 3
or HIST 1512 | World Civilization from 1500 | 3
HIST 2605 | Turning Points in United States History 1 | 3
or HIST 2606 | Turning Points in United States History 2 | 3

Select four courses chosen from Groups B, C, & D below. One course must be selected from each group. The fourth course may be from Group B, C, or D. Courses must be at the 3700-level or higher. All courses must be passed with a grade of C or better.

**Group B (American)**
- HIST 2601 | American Military History
- HIST 3700 | The Atlantic World ¹
- HIST 3702 | Early America
- HIST 3704 | Age of Jefferson and Jackson
- HIST 3706 | Age of Lincoln and Grant
- HIST 3710 | Incorporation of America, 1877-1919
- HIST 3712 | United States in Crisis: 1900-1945
- HIST 3713 | Cold War America: 1945-1990
- HIST 3715 | Introduction to Historic Preservation
- HIST 3717 | Constitutional History of the United States
- HIST 3723 | History of American Sports
- HIST 3726 | History of Women in the United States
- HIST 3734 | History of Organized Crime in the United States
- HIST 3736 | History of American Cities
- HIST 3740 | The Vietnam War ¹
- HIST 3741 | Diplomatic History of the United States 1
- HIST 3742 | Diplomatic History of the United States 2
- HIST 3743 | Labor in United States History
- HIST 3744 | The History of American Business
- HIST 3747 | History of Appalachia
- HIST 3748 | History of Ohio
- HIST 3762 | The Second World War ¹
- HIST 4801 | Select Problems in American History
- HIST 4811 | Practicum in Historic Preservation
- HIST 5806 | American Architectural History 1
- HIST 5807 | American Architectural History 2
- HIST 4812 | Historic Preservation Internship
- HIST 4815 | American Material Culture
- HIST 5810 | Conservation of the Historic Built Environment

**Group C (European)**
- HIST 3752 | Ancient History 1
- HIST 3753 | Ancient History 2
- HIST 3755 | Early Medieval Civilization
- HIST 3757 | History of Medicine
- HIST 3758 | Renaissance Europe
- HIST 3759 | The Reformation Era
- HIST 3760 | The Age of Louis XIV
- HIST 3761 | The French Revolution and Napoleon (1789-1815)
- HIST 3762 | The Second World War ¹
- HIST 3763 | Modern France, 1815 to Present
- HIST 3764 | Modern Europe, 1715 to the Present

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>HIST 3765</td>
<td>Europe from the Congress of Vienna to the Franco-Prussian War (1815-1871)</td>
<td>3</td>
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<tr>
<td>HIST 3766</td>
<td>Europe from the Franco-Prussian War to World War I</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3767</td>
<td>Europe from World War I to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3769</td>
<td>Modern Germany</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3774</td>
<td>Global Environmental History. Topics and Methods ¹</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3775</td>
<td>Global Industrial Revolution ¹</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3778</td>
<td>Russia to 1855</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3779</td>
<td>Russia 1855 to Present ¹</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3780</td>
<td>History of Eastern Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3782</td>
<td>History of the Balkans</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3784</td>
<td>Britain and Its Empire 2: 1870-Present</td>
<td>3</td>
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<tr>
<td>HIST 3785</td>
<td>The Mediterranean World: Modern Italy, 1815-Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3787</td>
<td>History of Women in Europe</td>
<td>3</td>
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<tr>
<td>HIST 3788</td>
<td>The Holocaust</td>
<td>3</td>
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<tr>
<td>HIST 3790</td>
<td>Medieval Britain</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3794</td>
<td>The First World War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4850</td>
<td>International Area Study ¹</td>
<td>3</td>
</tr>
<tr>
<td>HIST 4851</td>
<td>Select Problems in Transnational History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Group D (Non-Western)**
- HIST 3765 | Global Environmental History. Topics and Methods ¹ | 3 |
- HIST 3774 | Global Industrial Revolution ¹ | 3 |
- HIST 3778 | Russia to 1855 | 3 |
- HIST 3779 | Russia 1855 to Present ¹ | 3 |
- HIST 3780 | History of Eastern Europe | 3 |
- HIST 3782 | History of the Balkans | 3 |
- HIST 3784 | Britain and Its Empire 2: 1870-Present | 3 |
- HIST 3785 | The Mediterranean World: Modern Italy, 1815-Present | 3 |
- HIST 3787 | History of Women in Europe | 3 |
- HIST 3788 | The Holocaust | 3 |
- HIST 3790 | Medieval Britain | 3 |
- HIST 3794 | The First World War | 3 |
- HIST 4850 | International Area Study ¹ | 3 |
- HIST 4851 | Select Problems in Transnational History | 3 |

Total Semester Hours 24

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1. No course can count in more than one group. Courses may count in only one category.

Minor in Judaic Studies

Jewish history stretches back over three-thousand years and spans the globe. Students who minor in Jewish studies will explore Jewish societies and cultures in their profound variety. Not only will students learn the fundamentals of the Jewish religion and Jewish thought, but they will also use these to reflect upon the broader world in which Jews have lived. The study of Jewish experience through history can be a key to deeper insights into world history. Our program offers a focus on the history and meaning of the Holocaust, the study of which helps students to think critically about the modern world and their responsibilities to it. The Center for Judaic and Holocaust Studies organizes a robust selection of extra-curricular activities, often in partnership with the student-led Club for Jewish Culture. These supplement classroom instruction and offer opportunities for active participation and student leadership. Study Abroad trips to various locations
around the world may be taken for credit, based upon availability. Hebrew language may also be taken for minor credit.

For more information, visit the Center for Judaic and Holocaust Studies at Youngstown State University (https://jewishstudies.ysu.edu/).

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500</td>
<td>3</td>
</tr>
<tr>
<td>REL 2601</td>
<td>Introduction to World Religions</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3789</td>
<td>Jewish History</td>
<td>3</td>
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<tr>
<td>JUDC 3751</td>
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<td>3</td>
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<td>Select two of the following:</td>
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<td>6</td>
</tr>
<tr>
<td>HIST 3798</td>
<td>Middle East 2: The Modern Period</td>
<td></td>
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<tr>
<td>HIST 3788</td>
<td>The Holocaust</td>
<td></td>
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<tr>
<td>REL 3731</td>
<td>Hebrew Scriptures</td>
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<tr>
<td>HBRW 2605</td>
<td>Advanced Intermediate Hebrew</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Hours: 18

**Philosophy and Religious Studies**

Welcome to Philosophy and Religious Studies

Welcome to Youngstown State University and the programs of Philosophy and Religious Studies! Our programs have a lot to offer on matters of central importance to the lives of our students, our community, and the mission of YSU. In addition to our wonderful course offerings, we have a vibrant student organization, organize a speakers series with world-class scholars, and are home to both the James Dale Ethics Center and the Center for Islamic Studies. I encourage you to explore our website (http://philrel.ysu.edu/) to learn more about the offerings of the Philosophy and Religious Studies programs at Youngstown State University!

The YSU Programs of Philosophy and Religious Studies offer a wealth of productive studies for life and technical knowledge for career opportunities. Our programs make an excellent addition to complement any career. The majors in Philosophy or Religious Studies are also sound preparations for a wide range of graduate programs. The department offers degrees in Philosophy, Religious Studies, and Pre-Counseling (with either a Philosophy or a Religious Studies focus), as well as a number of minors.

- Alan Tomhave, Chair, Department of Humanities and Social Sciences

**Contact Information**

Alan Tomhave, Chair and Program Coordinator - aetomhave@ysu.edu - (330) 941-3447

For more information, call (330) 941-3448 or visit the Department of Philosophy and Religious Studies (http://www.ysu.edu/philrel/).

I am located in 520 DeBartolo Hall.

**Specialized Centers**

The Department of Philosophy and Religious Studies houses The Dr. James Dale Ethics Center and the Center for Islamic Studies.

**The Dr. James Dale Ethics Center**

The Dr. James Dale Ethics Center was founded in 1993 to support the study and teaching of ethics and to promote moral reflection and conduct in personal and professional life. Its activities are guided by the conviction that institutions of higher education play a crucially important role in creating and sustaining a democratic people, concerned not only with private but also common purposes. To accomplish its mission, the Center:

- Sponsors ethics seminars, workshops, and conferences for regional professionals;
- Offers lectures to the University and general community;
- Provides ethics consultation for regional organizations;
- Promotes the scholarship of teaching and learning of ethics

The Director of the Ethics Center is Dr. Mark Vopat, Professor of Philosophy in the Department of Philosophy and Religious Studies.

**The Center for Islamic Studies**

The Center for Islamic Studies is devoted to the scholarly study of Islam and to educating the community about Islamic religion, history, and culture. It was created through an agreement between the Youngstown Muslim community and Youngstown State University. To accomplish its mission, the Center:

- Offers lectures to the University and general community;
- Co-publishes (with the Iqbal Academy Pakistan) the *Iqbal Quarterly*, which aims to introduce the works of the South Asian poet-thinker Muhammad Iqbal to general readers in the English-speaking world;
- Participates in The Pluralism Project of the Department of Philosophy and Religious Studies, which publishes *E Pluribus*, a newsletter devoted to interfaith activities in the Mahoning Valley and to events of general interest in the field of religious pluralism.

The Director of the Center for Islamic Studies is Dr. Mustansir Mir, University Professor of Islamic Studies in the Department of Philosophy and Religious Studies.

**Philosophy Circle**

The Philosophy Circle is a group of more than 140 faculty, alumni, and friends whose donations support special departmental activities, including awards for outstanding student papers and funding for the Dr. Thomas and Albert Shipka Speakers Series. The Shipka Speakers Series has sponsored over 40 lectures by outstanding scholars, on topics related to philosophy and religious studies that are of wide interest to both the university and the larger community. For videos of recent talks, see the Shipka Speakers Series (http://philrel.ysu.edu/shipka-speakers-series/) page.

**Departmental Scholarships**

The programs of Philosophy and Religious Studies offer the following scholarships. Please contact the department office for more information.

- Evangelos Michelakis Meshel Scholarship in Philosophy
- Robert G. & S. Ann Berich Meigetter Scholarships in Philosophy
- Dr. Earl Eugene Eminhizer Scholarship in Religious Studies
- Sister Jean Gillespie Memorial Award in Religious Studies
- Bevan-Dillingham Scholarship in Philosophy and Religious Studies
- Helen Pavlov Memorial Scholarship in Philosophy and Religious Studies

**Philosophy and Religious Studies Club**

The Philosophy and Religious Studies Club is a student-run group open to all persons interested in philosophy and religious studies. The club hosts an annual educational fundraiser that showcases the interests of a department faculty member. Topics vary for this popular evening complete with music, food, and wine tasting. The students also organize bi-monthly “Eat Drink Think” events (EDT), which are social events focused on classic and modern texts held over food and drinks. EDT events provide a nice forum for majors, non-majors, and community members to delve deeply into persistent questions in philosophy and religion and their relation to public policy, national and global events, and academics. For more information, please visit Philosophy and Religious Studies (http://www.ysu.edu/philrel/) website and join our Facebook (https://www.facebook.com/pages/YSU-Philosophy-and-Religious-
StudiesDepartment/188613781180674/) group, “YSU Philosophy and Religious Studies Club,” for updates about upcoming events.

Chair
Alan E. Tomhave, Ph.D., Professor, Chair

Professor
Mustansir Mir, Ph.D., Professor
Gabriel Palmer-Fernandez, Ph.D., Professor
Mark C. Vopat, Ph.D., Professor

Lecturer
Robyn Gaier, Ph.D., Lecturer

Majors
- Philosophy Major (p. 236)
- Religious Studies Major (p. 237)
- Philosophy Major, Pre-Counseling Tracks (p. 236)
- Religious Studies Major, Pre-Counseling Tracks (p. 237)

Minors
- Professional Ethics Minor (p. 239)
- Philosophy Minor (p. 239)
- Religious Studies Minor (p. 240)
- Islamic Studies Minor (p. 239)

Philosophy

PHIL 1560 Introduction to Philosophy 3 s.h.
The nature of philosophy and its relation to science, religion, and art; study of the philosophical approach and attitude, the basic problem areas in philosophy, and some typical philosophical viewpoints.
Gen Ed: Arts and Humanities.

PHIL 1561 Technology and Human Values 3 s.h.
An examination of the impact of technology and science on contemporary human values and investigations of social and political perspectives on modern technocracy, based on case studies in science, medicine, and engineering.
Gen Ed: Arts and Humanities.

PHIL 1565 Critical Thinking 3 s.h.
An examination of the logical skills needed for critical thinking in practical situations. Topics include procedures and guidelines for identifying and evaluating arguments, recognizing and eliminating informal fallacies, and writing and critiquing argumentative essays.
Gen Ed: Arts and Humanities.

PHIL 2608 The Examined Life 3 s.h.
Considers the nature of happiness and well-being and their relation to social institutions. Addresses the roles that civic and personal relations, morality, aesthetics, education, and religion play in providing happiness, purpose, and meaning in one’s life. Cross listed as REL 2608.
Gen Ed: Arts and Humanities.

PHIL 2610 Global Ethics 3 s.h.
Examination of morality and justice from a global perspective, including such topics as war, terrorism, and states; poverty and the global economy; religion, gender, and identity; globalization and the environment; and markets and intellectual property. Cross-listed as REL 2610.
Gen Ed: Arts and Humanities.

PHIL 2612 Ancient & Medieval Philosophy 3 s.h.
An examination of philosophers and philosophical systems in Western civilization from the pre-Socratics until the Renaissance.

PHIL 2619 Introduction to Logic 3 s.h.
Introduction to syllogistic or classical logic, symbolic and inductive logic. Emphasis on the rules of syllogism, immediate inferences, propositional functions, classes, truth tables, Venn diagrams; the use of analogy, generalization, the verification of hypotheses, and scientific method.
Prereq.: MATH 1501 or at least Level 20 on the Mathematics Placement Test.
Gen Ed: Arts and Humanities.

PHIL 2625 Introduction to Professional Ethics 3 s.h.
An examination of ethical problems in the major fields of engineering and an explanation of the methodology needed to address them; an analysis of the rights and duties of engineers in their relations to clients, employers, the public, and the engineering profession.
Prereq.: One 2600-level PHIL course, or PHIL 1560 or ENTC 1505 or ENGR 1550.
Gen Ed: Arts and Humanities.

PHIL 2627 Law and Criminal Justice Ethics 3 s.h.
Examination of major theories in philosophy of law and justice, and the study of ethical issues and professional standards in criminal justice practice.
Prereq.: Any 2600-level PHIL course or PHIL 1560 or CJFS 2601, CJFS 2602 or CJFS 2603.
Gen Ed: Arts and Humanities.

PHIL 2628 Business Ethics 3 s.h.
Examines ethical problems in business, ethical responsibilities of business professional, and business as a global institution. Topics include the corporation, at-will employment, unions, technology, privacy, advertising, whistle-blowing, globalization, environmental impact, human rights, just distribution, affirmative action and cultural diversity.
Gen Ed: Arts and Humanities.

PHIL 2631 Environmental Ethics 3 s.h.
Application of ethical theories in evaluating human interaction with the natural environment, analysis of rights and duties regarding other species and future generations, the ethics of environmental activism, and philosophical and religious perspectives on environmental issues.
Gen Ed: Environmental Sustainability, Social and Personal Awareness.

PHIL 2635 Ethics of War and Peace 3 s.h.
Examines reasons for making war, for restraint on the conduct of war, and for rejecting war as an instrument of national policy as understood within a variety of moral traditions, both secular and religious.
Gen Ed: Arts and Humanities.

PHIL 2698 Introductory Individual Study in Philosophy 1 s.h.
Introductory study of a philosophical problem, movement, thinker, or the relationship of philosophy to problems in other disciplines. Intended to be an independent study course with subject matter dependent upon approval of the faculty member and student. May be repeated up to 3 s.h.

PHIL 3702 History of Modern Philosophy 3 s.h.
Study of major Western philosophical figures and movements from the Renaissance through the 19th century.
Prereq.: One 2600-level PHIL course or PHIL 1560.

PHIL 3708 Social and Political Philosophy 3 s.h.
A study of the philosophical foundations of democracy, dictatorship, and communism, especially their views of reality, knowledge, human nature, and morality, with attention to rights, duties, freedom, authority, dissent, censorship, crime and punishment, and religion.
Prereq.: PHIL 1560.
PHIL 3711 General Ethics 3 s.h.
Examination and evaluation of the major ethical theories in classical, dialectic, pragmatic and naturalistic, analytic and positivist, and existentialist thought.
Prereq.: PHIL 1560.
Gen Ed: Arts and Humanities.

PHIL 3712 Philosophy of Religion 3 s.h.
The philosophical investigation of religious questions such as existence and nature of the divine, the problem of evil, death and immortality, religion and science, and religious experience.
Prereq.: PHIL 1560 or REL 2601.
Cross listed with REL 3712.

PHIL 3713 Philosophy of the Family 3 s.h.
Examines the family from philosophical, political, and historical perspectives and considers issues of justice in familial relationships. Explores the relationship among parents, children, and the state, and reviews the evolving conceptions of childhood, child well-being, and children's rights.
Prereq.: ENGL 1551.

PHIL 3714 Language and Mind 3 s.h.
Introduction to the study of traditional philosophical problems in the analysis of linguistic structures and functions and of their implications for the nature of mind, including meaning, mental representation and causation, information processing, and psychological explanation.
Prereq.: One 2600-level PHIL course or PHIL 1560.

PHIL 3715 Philosophy of Science 3 s.h.
A philosophical consideration of some of the fundamental concepts and assumptions of the sciences: the nature of scientific knowledge; the relation of scientific to other kinds of knowledge and experience.
Prereq.: PHIL 1560.

PHIL 3719 Symbolic Logic 3 s.h.
The structure and properties of axiomatic systems; the theory of propositional and relational logic; the algebra of classes; related topics.
Prereq.: PHIL 2619.

PHIL 3723 Philosophy of Law 3 s.h.
Examination of the nature and limits of law, the justification of the legal system, the relationship between law and morality, state punishment of individuals, the justification for punishment, citizens' rights and issues of privacy, liberty, discrimination, and civil disobedience.
Prereq.: One 2600-level PHIL course or PHIL 1560.

PHIL 3725 Biomedical Ethics 3 s.h.
An examination of ethical issues posed by biomedical research and technology, including issues of informed consent, patients' rights, experimentation, genetic research and intervention, death and dying, and the allocation of scarce resources.
Prereq.: One 2600-level PHIL course or SOC 3703 or SOC 3745 or PSYC 3780 or admission to the NEOMED-YSU program or the BS in Nursing program.

PHIL 3735 Ethics and Scientific Research 3 s.h.
Definition and examination of the ethical basis of scientific conduct in reporting experimental results, using human and animal subjects, adopting protocols, and pursuing research with broad impact on human rights and social welfare.
Prereq.: PHIL 1560 or PHIL 2625.

PHIL 3740 Muslim Thinkers and Thinkers 3 s.h.
Examination of the theological, philosophical, legal, and political writings and ideas of major Muslim thinkers and mystics from the classical through the modern period, covering the continuities and differences.
Prereq.: any 2600-level REL course or PHIL 1560.
Cross listed with REL 3740.

PHIL 3745 Classical Asian Philosophy 3 s.h.
Focus is on selected classical philosophical texts in Hinduism, Buddhism, Confucianism, and Taoism.
Prereq.: Any lower division course in Philosophy or ASST 1550.

PHIL 3798 Intensive Individual Study of Philosophy 1 s.h.
Intensive study of a philosophical problem, movement, thinker, or the relationship of philosophy to problems in other disciplines. Intended to be an independent study course with subject matter dependent upon approval of the faculty member and student. May be repeated up to 3 s.h.
Prereq.: One 3700-level PHIL course.

PHIL 4805 Direct Readings in Philosophy 3 s.h.
Independent study course with subject matter dependent upon approval of the faculty member in consultation with student.
Prereq.: Any 3700 level PHIL course.

PHIL 4820 Seminar in Philosophy 3 s.h.
Study in depth of a particular philosopher, topic, or area in philosophy, as determined by the instructor; may be repeated once with different course content.
Prereq.: One 3700-level PHIL course.

PHIL 4859 Capstone Cooperative Seminar 1 s.h.
The course aids capstone students in developing and following a schedule for timely completion of a major research project, provides general direction on effective methods for working on such a project, and encourages and facilitates cooperative work among advanced students by providing peers with whom to discuss their ideas, exchange drafts, and provide constructive comments on ongoing written work. Must be taken concurrently with PHIL 4861.

PHIL 4861 Senior Capstone Project 3 s.h.
Research and writing of a paper, or other committee approved project, on a philosophical topic, under the supervision of a full-time faculty member and in consultation with a committee of at least two other members of the department.
Prereq.: Philosophy major with senior standing and completion of at least 21 s.h. of PHIL courses.
Gen Ed: Capstone.

PHIL 4870 Internship in Ethical Practice 1-3 s.h.
Students work with professionals in a local organization, thereby gaining direct access to the ethical issues involved in such an environment. Students will be supervised by an appropriate working professional and either a faculty member of the Dr. James Dale Ethics Center or another faculty member in the department selected for this purpose. The course grade shall be assigned by the YSU supervisor, based on the project journal, an evaluation of the student's on-site work by the participating professional and the YSU supervisor, and a final project paper. Registration by permit only. 1 s.h., repeatable to a total of 3 s.h.
Prereq.: One 3700-level PHIL or REL course.

Religious Studies

REL 2601 Introduction to World Religions 3 s.h.
A survey of the major world religions exploring their distinctive features and common threads. A study of their founders, systems of thought, symbols, and sacred literatures.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.

REL 2602 Introduction to Religious Studies 3 s.h.
Examines the religious features of doctrines, myths or practices and surveys various methods by which religion is explored and scrutinized.
REL 2605 Myth, Symbol, and Ritual 3 s.h.
An introduction to the nature and function of myth, symbol, and ritual. Myth interpretation, the relationship between societies and their myths, and the cultural use of myths, symbols, and rituals in religious and spiritual contexts.
Gen Ed: Arts and Humanities.

REL 2608 The Examined Life 3 s.h.
Considers the nature of happiness and well-being, their relation to social institutions, and the roles that civic and personal relationships, morality, aesthetics, education, and religion play in providing happiness, purpose, and meaning in one's life. Cross listed as PHIL 2608.
REL 2610  Global Ethics 3 s.h.
Examination of morality and justice from a global perspective, including such topics as war, terrorism, and states; poverty and the global economy; religion, gender, and identity; globalization and the environment; and markets and intellectual property. Cross-listed as PHIL 2610.
Gen Ed: Arts and Humanities.

REL 2611 Judaism Christianity and Islam 3 s.h.
Judaism, Christianity, and Islam. Examines the origins, foundational texts, beliefs and practices, intellectual and spiritual dimensions, and cultural norms and values of each religion, as well as the structures of authority in the community founded by each religion and the factors that have promoted the survival of each.

REL 2617 Introduction to Asian Religions 3 s.h.
A survey of the religions of India, China, and Japan, their systems of thought, moral values, and methods of personal transformation.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.

REL 2621 Religion and Moral Issues 3 s.h.
The relation of specific religious and moral issues to questions of personal conduct and social policy.
Gen Ed: Arts and Humanities.

REL 2623 Introduction to Christianity 3 s.h.
Introduction to the Christian religion, exploring its origins, emergence as the official religion of the Roman Empire, and global expansion into one of the largest religions of the world. Attention is given to core beliefs, events, and persons of significant impact, to the diversity of approaches available within the Christian tradition, and to such contemporary issues as gender, the environment, and war. No familiarity is presupposed with the Bible, Christianity, or the academic study of religion.

REL 2624 Introduction to Buddhism 3 s.h.
Introduces the wide range of Buddhist traditions throughout the world and especially in the diverse area of Asia. By examining unique Buddhist practices, beliefs, rituals and ideas, a better understanding of those who practice Buddhism is gained.

REL 2631 Religion and the Earth 3 s.h.
A cross-cultural survey of the religious beliefs and values that have shaped our thinking about the earth. An exploration of the shifts in religious thought called for by the ecological crisis of sustainability.
Gen Ed: Arts and Humanities, Environmental Sustainability, Social and Personal Awareness.

REL 2632 Jesus and the Gospels 3 s.h.
The life and teachings of Jesus in their historical context. Examination of the ways in which Jesus is interpreted within the synoptic gospels.

REL 2699 Introductory Individual Study in Religious Studies 1 s.h.
Introductory study of a religious studies problem, movement, thinker, or the relationship of religious studies to problems in other disciplines. Intended to be an independent study course with subject matter dependent upon approval of the faculty member and student. May be repeated up to 3 s.h.

REL 3708 African-American Religion 3 s.h.
Development of African-American religion and theology from the days of slavery to the present.
Prereq.: 12 credits of undergraduate coursework.

REL 3710 African and Neo-African Religion 3 s.h.
A study of African religious traditions and their pivotal role in the formation of African civilizations and communities in the African diaspora, including their adaptations of Islam and Christianity.
Prereq.: 12 credits of undergraduate coursework.

REL 3712 Philosophy of Religion 3 s.h.
The philosophical investigation of religious questions such as existence and nature of the divine, the problem of evil, death and immortality, religion and science, and religious experience.
Prereq.: 12 credits of undergraduate coursework.
Cross listed with PHIL 3712.

REL 3720 The World of Islam 3 s.h.
The study of the origins and development of classical and modern Islam, including the Prophet Muhammad, the Quran, and Muslims in America.
Prereq.: 12 credits of undergraduate coursework.

REL 3722 Popes Saints and Rebels 3 s.h.
The origin and development of Christianity; examination of the life and teachings of Jesus; Christian theology, liturgy, and symbolism; and divisions of contemporary Christianity.
Prereq.: 12 credits of undergraduate coursework.

REL 3726 Buddhist Beliefs Practices and Debate 3 s.h.
An Introduction to Buddhist traditions, their historical development in countries like India, China, Tibet and Thailand, and Buddhist positions on contemporary issues. Special attention to practices, beliefs, and ethics.
Prereq.: 12 credits of undergraduate coursework.

REL 3728 Hindu Traditions 3 s.h.
Examines Yoga, meditation, karma, reincarnation, and major devotional and ceremonial traditions that have developed around Shiva, Vishnu, and the Goddess. A central part of the course is the study of the dynamics between popular worship and the contemplative traditions of Hindu culture.
Prereq.: 12 credits of undergraduate coursework.

REL 3731 Hebrew Scriptures 3 s.h.
A critical analysis of the Hebrew scriptures in terms of historical background, textual development, and religious and ethical themes.
Prereq.: One 2600-level REL or PHIL course 3740. Muslim Thinkers. Examination of the theological, philosophical, legal, and political writings and ideas of major Muslim thinkers from the classical through the modern period, covering the continuities and differences.
Prereq.: 12 credits of undergraduate coursework.

REL 3733 Women And the Bible 3 s.h.
A study of Biblical interpretation utilizing narratives that portray women in Hebrew and Christian Scriptures. Students will learn analytical skills required for narrative interpretation and exegetical analysis.
Prereq.: 12 credits of undergraduate coursework.

REL 3740 Muslim Thinkers and Mystics 3 s.h.
Examination of the theological, philosophical, legal, and political writings and ideas of major Muslim thinkers and mystics from the classical through the modern period, covering the continuities and differences.
Prereq.: 12 credits of undergraduate coursework.

REL 3743 Reform, Revolt, or Revolution in Islam 3 s.h.
Critical examination of the movements of change in Islam intended to (1) reassert the primacy of Islamic religious norms in society (reform); (2) challenge the dominant political structures (revolt); or (3) bring about a radical societal change (revolution). The course examines in depth the use of Islamic motifs and symbols in all these movements.
Prereq.: REL 2601 or POL 1550 or permission of instructor.

REL 3744 Islamic Culture and Literature 3 s.h.
Introduction to the diversity of Muslim culture and literature across the world. Emphasis on classical and premodern literature, art and architecture.
Prereq.: 12 credits of undergraduate coursework.

REL 3748 Islam and the West 3 s.h.
Examination of the historical relationship between the and Islamic and Western worlds, as well as their interaction in modern contexts.
Prereq.: 12 credits of undergraduate coursework.
REL 3750 Religion and Race 3 s.h.
Examines race theory and its relation to religious studies through consideration of immigration patterns and the ways in which religion has been affixed to markers of identity over the last two hundred years. Prereq.: 12 credits of undergraduate coursework.
Cross-listed: SOC 3750 and ANTH 3750.

REL 3751 Liberation Theologies and Revolutionary Change 3 s.h.
Study of liberation theologies in the Third World and in minority communities in the West, in relation to questions of underdevelopment, poverty, and oppression. Prereq.: 12 credits of undergraduate coursework.

REL 3753 Religion and Violence 3 s.h.
Examines the various approaches to explaining religiously justified violence, focusing on examples from the Middle East, South Asia, Southeast Asia, and East Asia. A central element of the course explores the gap between religious ideals and practices and the importance of recognizing that distinction. Prereq.: REL 2601 or POL 1550.

REL 3754 Feminism, Ecology and Religion 3 s.h.
Investigation of religious perspectives related to women and nature, the relationship of the sacred to the natural world, scriptural and theological influences, and deep ecology and other environmental movements from a feminist perspective. Prereq.: 12 credits of undergraduate coursework.

REL 3756 Psychology of Religion 3 s.h.
Survey of developments in depth psychology that have shaped our understanding of religious experience and spirituality. Prereq.: PSYC 1560 or one 2600-level REL course.

REL 3760 Sex and Religion 3 s.h.
Explores the tensions between religion and sex through the Western and non-Western lens. Divided into sections, this course covers attitudes toward sex by early modern Christians, a few non-Western religious traditions and contemporary Western religion.

REL 3799 Intensive Individual Study in Religious Studies 1 s.h.
Intensive study of a religious studies problem, movement, thinker; or the relationship of religious studies to problems in other disciplines. Intended to be an independent study course with subject matter dependent upon approval of the faculty member and student. May be repeated up to 3 s.h. Prereq.: One 3700 level REL course.

REL 4810 Directed Readings in Religious Studies 3 s.h.
Independent study course with subject matter dependent upon approval of the faculty member in consultation with student. Prereq.: Any 3700 level REL course.

REL 4820 Special Topics in Religious Studies 3 s.h.
Selected topics in religious studies. Topic to be announced each time the course is offered. Prereq. 12 credits of undergraduate coursework.

REL 4825 Methods and Study of Religion 3 s.h.
This course explores the principal methodological issues in the scholarly study of religion and enables students to expand and synthesize disciplinary knowledge. Prereq.: REL 2601.

REL 4850 Seminar in Religious Studies 3 s.h.
Study in depth of a particular figure, topic or area in religious studies, as determined by the instructor; may be repeated once with different course content. Prereq.: One 3700-level REL course.

REL 4860 On-Site Studies in Religion 3-9 s.h.
An on-site investigation of the beliefs and practices of a particular religion or sect through readings, lectures, interviews, and travel to locations vital to its origin or development. Prereq.: Two 3700-level REL courses.

REL 4869 Capstone Cooperative Seminar 1 s.h.
The course aids capstone students in developing and following a schedule for timely completion of a major research project, provides general direction on effective methods for working on such a project, and encourages and facilitates cooperative work among advanced students by providing peers with whom to discuss their ideas, exchange drafts, and provide constructive comments on ongoing written work. Must be taken concurrently with REL 4871.

REL 4871 Senior Capstone Project 3 s.h.
Research and writing of a paper, or other committee approved project, on a topic in religious studies, under the supervision of a full-time faculty member and in consultation with a committee of at least two other members of the department. Prereq.: Religious Studies major with senior standing and completion of at least 21 s.h. of REL courses. Gen Ed: Capstone.

Bachelor of Arts in Philosophy
The mission of the philosophy program is to foster greater understanding and appreciation of the value of philosophical inquiry and the examination of perennial questions about the nature of human experience, the purpose of human endeavors individually and communally, and the value of knowledge. We create diverse educational experiences that develop ethical, intellectually curious students who are invested in their communities. By developing critical, logical, and creative thinking, sound judgment, and effective communication, we produce students who can engage their philosophical reasoning in the service of solving real-world problems, attending to the ethical issues and theoretical complexities of purpose, policy, and implementation.

A major in philosophy is ideal for students who plan to enter the field of philosophy, law, professional or medical ethics, the ministry, or other fields requiring a liberal arts background.

The major consists of 31 semester hours, including:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</td>
<td></td>
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<tr>
<td>YSU 1500 or SS 1500 or HONR 1500</td>
<td>Intro to Honors</td>
<td>1-2</td>
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<tr>
<td>GENERAL EDUCATION REQUIREMENTS</td>
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<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
<td>Mathematics Requirement</td>
<td></td>
<td>3</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<td>6</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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<tr>
<td>FOREIGN LANGUAGE REQUIREMENT</td>
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<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<tr>
<td>MAJOR REQUIREMENTS</td>
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<tr>
<td>PHIL 1560</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2619</td>
<td>Introduction to Logic</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2612</td>
<td>Ancient &amp; Medieval Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3702</td>
<td>History of Modern Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3711</td>
<td>General Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 4820</td>
<td>Seminar in Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy Electives (Three additional courses in Philosophy, 2 of which must be at the 3700-level or 4800-level.)</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
**PHIL 4859** Capstone Cooperative Seminar 1
**PHIL 4861** Senior Capstone Project 3

**Minor** 18

**Electives** Must complete a minimum number of electives to meet the 120th total graduation requirement 25

**Total Semester Hours** 120-122

This program can be completed in eight semesters if students enroll in 16 hours per semester and enroll in a combination of day and evening classes. The hours for the degree could increase depending upon the student’s foreign language placement upon entering YSU.

**Year 1**

**Fall**

YSU 1500 Success Seminar 1
PHIL 1560 Introduction to Philosophy 3
CMST 1545 Communication Foundations 3
ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
First Year Experience 3
FNLG 1550 Elementary Foreign Language 4

**Semester Hours** 17-18

**Spring**

PHIL 2612 Ancient & Medieval Philosophy 3
Social Science 15xx/26XX 3
ENGL 1551 Writing 2 3
PHIL 2631 Environmental Ethics 3
FNLG 2600 Intermediate Foreign Language 4

**Semester Hours** 16

**Year 2**

**Fall**

PHIL 2619 Introduction to Logic 3
Natural Science 15xx/26xx 3
Minor 15xx/26xx 3
Social and Personal Awareness 15xx/26xx 3
Social Science Elective 3

**Semester Hours** 15

**Spring**

PHIL 3702 History of Modern Philosophy 3
General Education 26XX 3
Minor 15XX/26XX course 3
Natural Science plus lab 15XX/26XX 4
Elective 15XX/26XX 3

**Semester Hours** 16

**Year 3**

**Fall**

PHIL 3711 General Ethics 3
PHIL Elective 3
Minor 15XX/26XX course 3
Elective 37XX 3
Elective 37XX 3

**Semester Hours** 15

**Spring**

PHIL Elective 37XX 3
Minor 37XX course 3
Elective 3 3
Elective 37XX 3

**Elective 37XX** 3

**Semester Hours** 15

**Year 4**

**Fall**

PHIL 4820 Seminar in Philosophy 3
Minor 37XX course 3
Elective 3 3
Elective 37XX 3
Elective 37XX 3

**Semester Hours** 15

**Spring**

PHIL 4861 Senior Capstone Project 3
PHIL 4859 Capstone Cooperative Seminar 1
Minor 37XX course 3
Elective 3 3
Elective 37XX 3
Elective 37XX 3

**Semester Hours** 13

**Total Semester Hours** 122-123

**Learning Objectives**

- Demonstrated reasoning ability (competently utilize principles of critical thinking, including assessment of definitions, recognition of fallacies, and application of the principles of good inductive and deductive reasoning).
- Demonstrated ability to articulate philosophical ideas and arguments (clarity, nuance, and sophistication of content) and knowledge of seminal figures in history who espouse them.
- Demonstrated ability to engage in charitable reading (willingness to consider alternative and plausible interpretations of an author’s work) and to consider arguments from the standpoint and experience of others (suspend one’s personal views).
- Master the basics of theoretical writing, including the development of precise definitions, effective analysis of texts, traditions, and theoretical positions, and effective development, defense, and critique of arguments.
- Demonstrated ability to revise beliefs, ideas, and arguments when presented with new sources, criticism, and evidence or to withhold judgment in the absence of reasons (reasonable disagreement and intellectual humility).

**Bachelor of Arts in Religious Studies**

Religious Studies, also known as Comparative Religion, the Science of Religion, or the academic study of religion, is a part of the human sciences, and it engages in the analysis of cross-cultural religious phenomena. As such, the mission of Religious Studies is to foster critical awareness of the role religion in society, the ways in which people’s values and worldviews shape their involvement in the world, such as business, law, and government, and to provide tools for students to track and measure these developments socially and reflectively in themselves.

**COURSE**

**TITLE**

**S.H.**

**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**

YSU 1500 or SS 1500 or HONR 1500

Success Seminar or Strong Start Success Seminar or Intro to Honors

**General Education Requirements**

ENGL 1550 or ENGL 1549

Writing 1 or Writing 1 with Support

ENGL 1551

Writing 2

CMST 1545

Communication Foundations

Mathematics requirement (met with MATH 2623 or PHIL 2619)
Bachelor of Arts in Religious Studies

Arts and Humanities (6 s.h.)
Recommended choices: REL 2608, REL 2610
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)
Social Science (6 s.h.)
Social and Personal Awareness (6 s.h.)
Recommended choices: REL 2617, REL 2631

Foreign Language Requirement
FNLG 1550 Elementary Foreign Language 4
FNLG 2600 Intermediate Foreign Language 4

Required Courses for Major (31 s.h. - 22 s.h. must be at the 3700-level or higher)
Religious Studies Core Courses
REL 2602 Introduction to Religious Studies 3
REL 4825 Methods and Study of Religion 3
Group A: Select one course from:
REL 2617 Introduction to Asian Religions 3
REL 3708 African-American Religion 3
REL 3710 African and Neo-African Religion 3
REL 3720 The World of Islam 3
REL 3726 Buddhist Beliefs Practices and Debate 3
REL 3744 Islamic Culture and Literature 3
REL 3748 Islam and the West 3
Group B: Select one course from:
REL 2611 Judaism Christianity and Islam 3
REL 3732 Jesus and the Gospels 3
REL 3722 Popes Saints and Rebels 3
REL 3731 Hebrew Scriptures 3
REL 3733 Women And the Bible 3
ANTH 4815 Anthropology of Religion 3
JUDC 1500 3
HIST 3789 Jewish History 3

Analytics - Select one course from two of the analytic groups:
Political Science:
REL 2610 Global Ethics
REL 2631 Religion and the Earth
REL 3743 Reform, Revolt, or Revolution in Islam
REL 3744 Islamic Culture and Literature
REL 3751 Liberation Theologies and Revolutionary Change
REL 3753 Religion and Violence
HIST 3788 The Holocaust

Anthropology:
REL 3728 Hindu Traditions
ANTH 4815 Anthropology of Religion

Sociology:
REL 3750 Religion and Race

Philosophy:
REL 2608 The Examined Life
REL 2621 Religion and Moral Issues
REL 3712 Philosophy of Religion
REL 3754 Feminism, Ecology and Religion

Psychology:
REL 3756 Psychology of Religion

Remaining Hours:
REL 4850 Seminar in Religious Studies 3
REL 4869 Capstone Cooperative Seminar 1
REL 4871 Senior Capstone Project 3
Religious Studies Electives 6

Minor 18
Electives Must complete a minimum number of electives to meet the 120 s.h. total graduation requirement

Total Degree Hours = 120 s.h.

Year 1
Fall  S.H.
YSU 1500 Success Seminar 1
REL 2602 Introduction to Religious Studies 3
CMST 1545 Communication Foundations 3
ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
Foreign Language 1550 4
Semester Hours 14-15

Spring
REL 37XX Group A 3
Social Science 15XX/26XX 3
ENGL 1551 3
REL 37XX Group B 3
Foreign Language 2600 4
Semester Hours 16

Year 2
Fall
PHIL 2619 Introduction to Logic 3
or MATH 2623 or Quantitative Reasoning
Natural Science 15XX/26XX 3
Minor 15XX/26XX course 3
Social and Personal Awareness 15XX/26XX 3
Elective 15XX/26XX 3
Semester Hours 15

Spring
REL 37XX Analytics 3
REL 37XX Analytics 3
Minor 15XX/26XX course 3
Natural Science plus lab 15XX/26XX 4
Social and Personal Awareness 15XX/26XX 3
Semester Hours 16

Year 3
Fall
Elective 3
REL Elective 3
Minor 15XX/26XX course 3
Elective 37XX 3
Elective 37XX 3
Semester Hours 15

Spring
REL Elective 3
Minor 37XX course 3
Elective 3
Elective 37XX 3
Elective 37XX 3
Semester Hours 15

Year 4
Fall
REL 4825 Methods and Study of Religion 3
Minor 37XX course 3
Elective 37XX 3
Learning Objectives

- Students will understand the various approaches to the study of religion under the field that is called Religious Studies. This is accomplished through enrollment in the two core courses, "Introduction to Religious Studies," and "Methods and the Study of Religion."
- Students will develop an appreciation of two discrete religious systems to allow for healthy comparisons. This is accomplished by fulfilling the requirement of taking one course from "Class A," which addresses Christian and Jewish traditions, and "Class B," which covers Islamic, Hindu, Buddhist, and African-American traditions.
- Students will accumulate two different methods to study religion. This is accomplished through the enrollment of one course from at least two different analytic groups: anthropology, philosophy, political science, psychology, and sociology.

Minor in Asian Studies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ASST 1550</td>
<td>Introduction to Asian Studies</td>
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</tr>
<tr>
<td>Select one Asian language sequence from the following:</td>
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<td></td>
</tr>
<tr>
<td>CHIN 1550</td>
<td>Elementary Chinese</td>
<td></td>
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<tr>
<td>CHIN 2600</td>
<td>Intermediate Chinese</td>
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<tr>
<td>OR another Asian-based foreign language</td>
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<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
<td></td>
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<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<tr>
<td>OR</td>
<td></td>
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<tr>
<td>FNLG 3799</td>
<td>Study Abroad in Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Select 9 s.h. from the following affiliated courses:</td>
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<td></td>
</tr>
<tr>
<td>ANTH 37600</td>
<td>Cult Old Wr Cult People China</td>
<td></td>
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<tr>
<td>ART 3784</td>
<td>Art of China</td>
<td></td>
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<tr>
<td>ART 3789</td>
<td>Arts of South and Southeast Asia</td>
<td></td>
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<tr>
<td>ECON 3704</td>
<td>Emerging Economies in Asia</td>
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<tr>
<td>HIST 3770</td>
<td>Asia to 1500</td>
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<tr>
<td>HIST 3772</td>
<td>History of Modern China</td>
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<td>HIST 3776</td>
<td>History of Modern Japan</td>
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<tr>
<td>PHIL 3745</td>
<td>Classical Asian Philosophy</td>
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<tr>
<td>POL 3741</td>
<td>Russia and China: From Revolution to Reform</td>
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<tr>
<td>PSYC 3777</td>
<td>Cross-Cultural Social Psychology</td>
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<tr>
<td>REL 2617</td>
<td>Introduction to Asian Religions</td>
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<tr>
<td>REL 3726</td>
<td>Buddhist Beliefs Practices and Debate</td>
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<tr>
<td>REL 3728</td>
<td>Hindu Traditions</td>
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<tr>
<td>SOC 37980</td>
<td>ST Culture and People of China</td>
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</table>

Select one affiliated course from above, or an approved 3 s.h. course relevant to Asian Studies from your major curriculum but not counted toward the major: 3

Total Semester Hours 119-120

Minor in Islamic Studies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>REL 2601</td>
<td>Introduction to World Religions</td>
<td>3</td>
</tr>
<tr>
<td>REL 3720</td>
<td>The World of Islam</td>
<td>3</td>
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<tr>
<td>REL 3740</td>
<td>Muslim Thinkers and Mystics</td>
<td>3</td>
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<tr>
<td>Select 9 s.h. of the following:</td>
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<tr>
<td>REL 3743</td>
<td>Reform, Revolt, or Revolution in Islam</td>
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<tr>
<td>REL 3744</td>
<td>Islamic Culture and Literature</td>
<td></td>
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<tr>
<td>REL 3748</td>
<td>Islam and the West</td>
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<tr>
<td>REL 4850</td>
<td>Seminar in Religious Studies (on appropriate topic, requiring approval by the Director of the Center for Islamic Studies)</td>
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Total Semester Hours 19-23

Minor in Philosophy

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<tbody>
<tr>
<td>PHIL 1560</td>
<td>Introduction to Philosophy</td>
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<tr>
<td>Select at least 6 s.h. from the following:</td>
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<tr>
<td>PHIL 1561</td>
<td>Technology and Human Values</td>
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<tr>
<td>PHIL 1565</td>
<td>Critical Thinking</td>
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<tr>
<td>PHIL 2619</td>
<td>Introduction to Logic</td>
<td></td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
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<tr>
<td>Select at least 3 s.h. from the following:</td>
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<tr>
<td>PHIL 2612</td>
<td>Ancient &amp; Medieval Philosophy</td>
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<tr>
<td>PHIL 3702</td>
<td>History of Modern Philosophy</td>
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<tr>
<td>Select at least 3 s.h. from the following:</td>
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<tr>
<td>PHIL 3711</td>
<td>General Ethics</td>
<td></td>
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<tr>
<td>PHIL 3719</td>
<td>Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>Any 3700- or 4800-level course in philosophy</td>
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Total Semester Hours 18

Minor in Professional Ethics

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<tbody>
<tr>
<td>PHIL 1560</td>
<td>Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3711</td>
<td>General Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Select at least nine s.h. from the following, of which one must be upper level:</td>
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</tr>
<tr>
<td>PHIL 1561</td>
<td>Technology and Human Values</td>
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</tr>
<tr>
<td>PHIL 2610</td>
<td>Global Ethics</td>
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<tr>
<td>PHIL 2626</td>
<td>Engineering Ethics</td>
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<tr>
<td>PHIL 2627</td>
<td>Law and Criminal Justice Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 2628</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 2631</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>PHIL 2635</td>
<td>Ethics of War and Peace</td>
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<tr>
<td>PHIL 3725</td>
<td>Biomedical Ethics</td>
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</tr>
<tr>
<td>PHIL 3735</td>
<td>Ethics and Scientific Research</td>
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Total Semester Hours 18
Minor in Religious Studies

<table>
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<th>COURSE</th>
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<tbody>
<tr>
<td>REL 2601</td>
<td>Introduction to World Religions</td>
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</tr>
<tr>
<td>REL 4825</td>
<td>Methods and Study of Religion</td>
<td>3</td>
</tr>
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</table>

Select four additional Religious Studies courses (12 s.h.), at least one of which (3 s.h.) must be at the 3700-level or 4800-level.

Total Semester Hours 18

Politics and International Relations / Rigelhaupt Pre-Law Center

The program of Politics and International Relations is housed on the fourth floor of DeBartolo Hall. The professors who make up the program are considered experts in their fields and are often quoted in regional, national, and international publications.

In addition to the Political Science major, students can choose to focus on two additional areas: Public Management or Foreign Affairs. When receiving their degree, students will be given a certificate by the department certifying that they have completed either the Foreign Affairs or the Public Management track described in this Undergraduate Catalog. Four areas of study are offered as minors.

Politics and International Relations includes many programs and student organizations. The Urban Internship Program, Peace and Conflict Studies, the Global Education Program, and the Columbus Internship Program offered in conjunction with the State Legislature are just four examples of curricular programs. An annual Law Day is organized by the program faculty, which brings in Law School representatives from throughout the country to YSU to discuss admission criteria and answer questions. The program also prepares a Moot Court team each year, which is nationally rated and competes in regional and national tournaments sponsored by the American Collegiate Moot Court Association.

The program is also home to Alpha Alpha Rho, YSU’s local chapter of Pi Sigma Alpha, the National Political Science Honor Society.

For more information, please contact the Department of Humanities and Social Sciences at (330) 941-3456 or call the program offices at (330) 941-3436.

Pre-Law

Pre-Law Advisor: Dr. Paul Sracic

Pre-Law advisement is available in the Rigelhaupt Pre-Law Center to acquaint students with the various fields of legal practice, which require specialized undergraduate study, and to help students prepare for the law school entrance examination (LSAT).

Law school admission standards generally require an undergraduate point average of at least 3.00 and placement above the 50th percentile in the Law School Admissions Test, which is designed to measure capacity for analytic thought and for precision in the use of language. Regional and national law schools may have more rigorous requirements. Interested students are advised to visit the Law School Admission Council’s (LSAC) website.

Professor
Adam L. Fuller, Ph.D., Associate Professor
Crysthanna A. Jackson Leftwich, Ph.D., Professor
Paul A. Sracic, Ph.D., Professor
Lecturer
Ronald Slipski, J.D., Lecturer

Majors

- Political Science Major (p. 242)
- Foreign Affairs Track (p. 244)
- Public Management Program (p. 245)

Minors

- Minor in Peace and Conflict Studies (p. 245)
- Minor in Political Science (p. 245)
- Minor in American Politics (p. 245)
- Minor in Foreign Affairs (p. 245)

POL 1550 Introduction to Political Science 3 s.h.
Study of politics, government, and societal institutions at both national and international levels.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.

POL 1560 American Government 3 s.h.
The foundations of American democratic government with an emphasis on the responsibilities of citizenship, civil rights, and civil liberties, parties and elections, and American political institutions. Students are encouraged to understand and discuss issues of social justice, equality and freedom, and majoritarianism. Topics include the civil rights movement, campaign finance reform, federalism, and affirmative action.
Gen Ed: Social Science.

POL 2640 Contemporary World Governments 3 s.h.
A comparative analysis of the development of institutions, attitudes, public policy, economic, and social systems of a number of foreign political systems.
Prereq.: POL 1550 or POL 1560.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.

POL 2660 International Relations 3 s.h.
An examination of theoretical and practical issues in the development of modern international politics, law and organization and political economy, with special attention to contemporary global and regional issues.
Gen Ed: International Perspectives, Social Science, Social and Personal Awareness.

POL 2695 Model United Nations 1 s.h.
A comparative study of foreign policy, contemporary global issues, international law, and international governmental organizations. Stresses interactive and role playing educational methodologies. Students are required to participate in one or more approved conference or field trips. May be repeated to a maximum of 3 s.h.
Prereq.: Consent of instructor.

POL 3700 American Presidency 3 s.h.
An examination of the role of the chief executive officer within the governmental framework. The offices of mayor and governor are treated, but the primary emphasis is on critical evaluation of the American presidency.
Prereq.: POL 1560.

POL 3701 American Legislative Process 3 s.h.
An examination of the lawmaking function. Emphasis on the United States Congress, with limited consideration of state and local government legislative practices.
Prereq.: POL 1560.

POL 3702 Law and Society 3 s.h.
The American judicial system, its institutional development and its role in policy determination, as evidenced in leading Supreme Court decisions. Limited coverage of state judicial systems.
Prereq.: POL 1560.
POL 3704 American Political Parties and Elections 3 s.h.
A descriptive analysis of the role of political parties in a democratic society, with emphasis on development of a theory of party, an examination of the history and characteristics of the American party system, and a quantitatively structured description of the national electorate.
Prereq.: POL 1560.

POL 3706 African-American Politics 3 s.h.
The politics of African Americans within American society in terms of organization, behavior, objectives, relative influence and power.
Prereq.: POL 1560 or AFST 2600.

POL 3707 Moot Court 1 3 s.h.
An introduction to appellate advocacy through the practical application of legal analysis and synthesis. This course analyzes one or two specific constitutional issues based on pre-determined U.S. Supreme Court cases. Students will analyze and synthesize Supreme Court decisions and present simulated oral argument as if before the U.S. Supreme Court based on those decisions. May be repeated for a maximum of 6 s.h.
Prereq.: POL 3702 and consent of chairperson.

POL 3708 American Constitutional Law 1: Government Power, Structure, and Limits 3 s.h.
Constitutional interpretations by the Supreme Court based on the examination of leading cases. Focus is on the powers of Congress, the President, the Courts, and the States.
Prereq.: POL 3702.

POL 3709 American Constitutional Law 2: Civil Rights and Liberties 3 s.h.
Constitutional interpretations by the Supreme Court based on the examination of leading cases. Focus is on Civil Rights and Liberties.
Prereq.: POL 3702.

POL 3712 Political Behavior 3 s.h.
An introduction to the primary research theories, perspectives and methodologies common to the study of government and global affairs, including computerized quantitative analysis.
Prereq.: POL 1550 or POL 1560.

POL 3714 American Public Opinion 3 s.h.
An introduction to the origins, uses, effects, and analysis of public opinion, including a practicum in opinion polling requiring field work and computerized quantitative analysis.
Prereq.: POL 1550 or POL 1560.

POL 3717 Health Care Policy 3 s.h.
A comprehensive overview of the American healthcare system. Particular attention given to the design and implementation of the Affordable Care Act.
Prereq.: BIO 1545 or EMS 1501 or MATC 2600 or MLT 1501 or AHLT major or POL 1560 or permission of instructor 3 s.

POL 3718 American Public Policy and Policy Analysis 3 s.h.
The formation, implementation, and evaluation of contemporary American public policy.
Prereq.: POL 1560.

POL 3720 Public Management 3 s.h.
A study of administrative organizations in American federal and state governments, with special attention to their role in the formulation and implementation of public policy as demonstrated in case studies.
Prereq.: POL 1560.

POL 3721 Urban Government 3 s.h.
The structure and politics of urban government, with special attention to intergovernmental relationships.
Prereq.: POL 1560.

POL 3722 State and Local Government 3 s.h.
The political processes and institutions of state and local governments, with special attention to Ohio government.
Prereq.: POL 1560.

POL 3724 Public Budgeting 3 s.h.
Study of the politics, theories, and techniques of public budgeting. Includes the process of budget preparation, adoption and execution. Topics include debt management and capital budgets. This course is cross-listed with ECON 3724.
Prereq.: POL 3720.

POL 3725 Individualized Study 1-3 s.h.
A supervised individual study of a special topic or issue in any area of contemporary politics and political science. An academic plan of study including a syllabus is required and will be placed in the student’s file. May be repeated for up to 6 s.h.
Prereq.: POL 1560 or POL 2640 or POL 2660, and permission of the chairperson.

POL 3741 Russia and China: From Revolution to Reform 3 s.h.
A comparative analysis of politics in the Russian Federal Republic and the People’s Republic of China, emphasizing contemporary issues of domestic governance and regional international relations as seen in the context of revolutionary Communism and the appearance of post-Communist reform politics.
Prereq.: POL 2640 or POL 2660 or ASST 1550.

POL 3742 Political Development and Political Regimes 3 s.h.
A comparative analysis of political development of selected states, with a focus on the social and political forces that lead to the formation of democracies and dictatorships.
Prereq.: POL 2640 or POL 2660.

POL 3744 European Politics 3 s.h.
Comparative analysis of the political development, governing systems, political behavior, public policy, and interrelations of selected European states, emphasizing the role of the European Union and the formation of new democracies in Eastern Europe.
Prereq.: POL 2640 or POL 2660.

POL 3751 Latin American Politics 3 s.h.
A comparative analysis of the political development, governing systems, political behavior, public policy, and international relations of selected Latin American states.
Prereq.: POL 2640 or POL 2660.

POL 3757 Aging and Social Policy 3 s.h.
Critical examination of the social policies and social systems which affect aging and retirement.
Prereq.: SOC 1500, GER 1501, or POL 1560.

POL 3760 International Political Economy 3 s.h.
Study of the relationship between global capitalism and the interstate political system, with emphasis on post-Cold War issues and American policy.
Prereq.: POL 2660.

POL 3761 United States Foreign Policy 3 s.h.
Examination of the domestic political formulation and international execution of U.S. foreign policy, emphasizing regional issues of security and political economy and the changing U.S. role in the post-Cold War world.
Prereq.: POL 2640 or POL 2660.

POL 3763 International Law 3 s.h.
Analysis of the principles and formation of international law as it has developed through customs and international agreement.
Prereq.: POL 2640 or POL 2660.

POL 3764 International Organizations 3 s.h.
Analysis of the development, organizational structure, public policy and political behavior of regional and international organizations, with focus on the United Nations.
Prereq.: POL 2640 or POL 2660.
Bachelor of Arts in Political Science

Major Requirements

A major in political science comprises 33 political science semester hours with the requirement that the student complete:

- a minimum of two courses in American Government
- a minimum of two courses from Comparative Government and International Relations
- one Political Thought course
- a capstone course

This degree may be earned in eight semesters if students enroll in 16 hours per semester.

COURSE TITLE S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements

ENG 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENG 1551 Writing 2 3
CMST 1545 Communication Foundations 3
Mathematics Requirement 3
Arts and Humanities (6 s.h.) 6
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) 7
Social Science (6 s.h.)
  3 s.h. are fulfilled with POL 1560 (required for the major)
Social Science elective 3
Social and Personal Awareness (6 s.h.) 6

Foreign Language Requirement

FNGL 1550 Elementary Foreign Language 4
FNGL 2600 Intermediate Foreign Language 4

Major Requirements

POL 1560 American Government 3

Optional Class

Bachelor of Arts in Political Science
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>POL 1550</td>
<td>Introduction to Political Science (Social Science/ Social and Personal Awareness)</td>
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<tr>
<td><strong>American Government</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td>POL 3700</td>
<td>American Presidency</td>
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<td>POL 3701</td>
<td>American Legislative Process</td>
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<td>POL 3702</td>
<td>Law and Society</td>
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<td>POL 3703</td>
<td>American Constitutional Law</td>
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<td>POL 3704</td>
<td>American Political Parties and Elections</td>
</tr>
<tr>
<td>POL 3707</td>
<td>Moot Court 1</td>
</tr>
<tr>
<td>POL 3706</td>
<td>African-American Politics</td>
</tr>
<tr>
<td>POL 3712</td>
<td>Political Behavior</td>
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<td>POL 3714</td>
<td>American Public Opinion</td>
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<td>POL 3717</td>
<td>Health Care Policy</td>
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<td>POL 3718</td>
<td>American Public Policy and Policy Analysis</td>
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<td>POL 3720</td>
<td>Public Management</td>
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<td>POL 3721</td>
<td>Urban Government</td>
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<td>POL 3722</td>
<td>State and Local Government</td>
</tr>
<tr>
<td>POL 3724</td>
<td>Public Budgeting</td>
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<td>POL 3725</td>
<td>Individualized Study</td>
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<td>POL 3757</td>
<td>Aging and Social Policy</td>
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<tr>
<td>POL 4805</td>
<td>Public Administration and the Political Process</td>
</tr>
<tr>
<td>POL 4850</td>
<td>Sustainability, Climate Change, and Society</td>
</tr>
<tr>
<td>POL 5800</td>
<td>Select Problems, American Government</td>
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<tr>
<td>POL 5830</td>
<td>Public Human Resource Management</td>
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<td><strong>Political Thought</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td>POL 3785</td>
<td>Political Thought 1</td>
</tr>
<tr>
<td>POL 3786</td>
<td>Political Thought 2</td>
</tr>
<tr>
<td>POL 3787</td>
<td>Political Thought 3</td>
</tr>
<tr>
<td>POL 5880</td>
<td>Select Problems, Political Thought</td>
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<tr>
<td><strong>Contemporary and International</strong></td>
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<td>Select two of the following:</td>
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<tr>
<td>POL 2640</td>
<td>Contemporary World Governments (Social Science/ Social and Personal Awareness)</td>
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<td>POL 2660</td>
<td>International Relations</td>
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<td>POL 2695</td>
<td>Model United Nations</td>
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<td>POL 3741</td>
<td>Russia and China: From Revolution to Reform</td>
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<td>POL 3742</td>
<td>Political Development and Political Regimes</td>
</tr>
<tr>
<td>POL 3744</td>
<td>European Politics</td>
</tr>
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<td>POL 3751</td>
<td>Latin American Politics</td>
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<td>POL 3760</td>
<td>International Political Economy</td>
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<td>United States Foreign Policy</td>
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<td>POL 3763</td>
<td>International Law</td>
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<td>POL 3764</td>
<td>International Organizations</td>
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<td>POL 3767</td>
<td>Asian Politics</td>
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<td>POL 3768</td>
<td>International Conflict</td>
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<td>POL 5860</td>
<td>Select Problems of Global Affairs</td>
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<tr>
<td>POL 5865</td>
<td>Global Environmental Policy and Law</td>
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<td><strong>Capstone Course</strong></td>
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<td>POL 4801</td>
<td>Senior Research Seminar</td>
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<td>Select a minimum of 15 s.h. (total 33 s.h. in Political Science).</td>
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<td>Electives 26-29 s.h.</td>
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<tr>
<td>POL 1560</td>
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<td>LASS 1510</td>
<td>Exploring Critical Questions in LASS</td>
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<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 or Writing 1 with Support</td>
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<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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<td><strong>Semester Hours</strong></td>
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<tr>
<td>POL 2640</td>
<td>Contemporary World Governments</td>
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<td>POL 2660</td>
<td>International Relations</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td><strong>Semester Hours</strong></td>
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<td><strong>Year 2</strong></td>
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<td>POL 37XX Domestic Politics</td>
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<td>POL 37XX Dom. or Intl.</td>
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<tr>
<td>Minor 15XX/26XX</td>
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<tr>
<td>Natural Science 15XX/26XX</td>
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<td>Social Science 15XX/26XX</td>
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<td><strong>Semester Hours</strong></td>
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<tr>
<td>Spring</td>
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<td>POL 37XX Dom. or Intl</td>
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<tr>
<td>POL 37XX Dom. or Intl</td>
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<td>Minor 15XX/26XX</td>
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<td>Natural Science + Lab 15XX/2600</td>
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<td>Social and Personal Awareness 15XX/26XX</td>
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<td><strong>Year 3</strong></td>
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<td>Fall</td>
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<tr>
<td>POL 3785</td>
<td>Political Thought 1</td>
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<td>or Political Thought 2</td>
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<tr>
<td>or POL 3787</td>
<td>or Political Thought 3</td>
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<td>POL 37XX Dom. or Intl</td>
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<td>Minor 37XX</td>
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<tr>
<td>Minor 37XX</td>
<td>3</td>
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<tr>
<td>Arts and Humanities 15XX/26XX</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<td>Spring</td>
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<tr>
<td>POL 37XX Dom or Intl</td>
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<td>POL 37XX Dom on Intl</td>
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<tr>
<td>Minor 37XX</td>
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<td>Minor 37XX</td>
<td>3</td>
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<tr>
<td>Arts and Humanities 15XX/26XX</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<td><strong>Year 4</strong></td>
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<td>Fall</td>
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<td>Minor 37XX</td>
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</tr>
<tr>
<td><strong>Semester Hours</strong></td>
<td>15</td>
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</tbody>
</table>
The program is designed to accommodate students seeking careers in international relations and comparative politics. Students study patterns of conflict and cooperation among nations, international organizations, and other international actors while developing a broader understanding of the problems of governance, justice, economic development, and political stability.

The Foreign Affairs Track provides students with a broad background and understanding of international relations and comparative politics. Students will use and apply the Style Manual of the American Political Science Association (APS) in conjunction with their research and writing skills associated with the creation of credible political science projects.

### Learning Outcomes

The department’s learning outcomes for political science majors are as follows:

- Students will be able to summarize fundamental components of knowledge that have developed in relation to areas of political theory, American government, comparative politics, and international relations.
- Students will recognize and explain the fundamental ideas and constitutional principles that have shaped the American Republic, as well as the institutions and behaviors that provide the setting and substance of American politics.
- Students will recognize and explain the basic ideas, problems and processes of comparative politics and international relations relative to issues of Western and non-Western political development, different forms of national government, and foreign policy behaviors relative to a global economy.
- Students will use and apply the Style Manual of the American Political Science Association (APS) in conjunction with their research and writing skills associated with the creation of credible political science projects.

### Foreign Affairs

The Foreign Affairs Track provides students with a broad background and understanding of international relations and comparative politics. Students study patterns of conflict and cooperation among nations, international organizations, and other international actors while developing a broader understanding of the problems of governance, justice, economic development, and political stability.

### General Education Requirements

**COURSE**
- **ENGL 1550**
- **ENGL 15149**
- **CMST 1545**
- **Mathematics Requirement**
- **Arts and Humanities**
- **Natural Science**
- **Social Science (Met in Major - POL 1560, ECON 1501)**
- **Social and Personal Awareness (Met in Major - HIST 1512, POL 2640)**

**Foreign Language Requirement**
- **FNLG 1550**
- **FNLG 2600**

**Major Requirements**

- Select one course from each of the following:
  - **Economics**
  - **Geography**
  - **History**
  - **Required Political Science Courses**
  - **Political Thought**
  - **Upper-Division Courses**
  - **Minor in American Politics**

### Economics

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ECON 1501</td>
<td>Economics in Action</td>
<td>3</td>
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</tbody>
</table>

For students minoring in Economics, one of the following may be substituted:

- ECON 2610 Principles 1: Microeconomics (For students minoring in Economics)
- ECON 2630 Principles 2: Macroeconomics (For students minoring in Economics)

### Geography

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
</tr>
<tr>
<td>GEOG 3713</td>
<td>Geography of South America</td>
</tr>
<tr>
<td>GEOG 3715</td>
<td>Geography of Middle America</td>
</tr>
<tr>
<td>GEOG 3717</td>
<td>Geography of Europe</td>
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### History

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<tbody>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500</td>
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### Required Political Science Courses

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<th>S.H.</th>
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<tbody>
<tr>
<td>POL 1560</td>
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<tr>
<td>POL 2640</td>
<td>Contemporary World Governments</td>
<td>3</td>
</tr>
<tr>
<td>POL 2660</td>
<td>International Relations</td>
<td>3</td>
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<tr>
<td>POL 4801</td>
<td>Senior Research Seminar</td>
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### Political Thought

<table>
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<th>TITLE</th>
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<tbody>
<tr>
<td>POL 3785</td>
<td>Political Thought 1</td>
</tr>
<tr>
<td>POL 3786</td>
<td>Political Thought 2</td>
</tr>
<tr>
<td>POL 3787</td>
<td>Political Thought 3</td>
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</table>

### Upper-Division Courses

Select a total of 15 s.h. from the courses listed below. A minimum of 6 s.h. must be taken from International relations area and a minimum of 6 s.h. from the Comparative Politics area.

### International Relations

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<tr>
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<tr>
<td>POL 3760</td>
<td>International Political Economy</td>
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<td>POL 3761</td>
<td>United States Foreign Policy</td>
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<td>POL 3763</td>
<td>International Law</td>
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<td>POL 3764</td>
<td>International Organizations</td>
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<tr>
<td>POL 3768</td>
<td>International Conflict</td>
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### Comparative Politics

Select 2-3 of the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>POL 3741</td>
<td>Russia and China: From Revolution to Reform</td>
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<tr>
<td>POL 3742</td>
<td>Political Development and Political Regimes</td>
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<td>POL 3744</td>
<td>European Politics</td>
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<td>POL 3751</td>
<td>Latin American Politics</td>
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### Minor in American Politics

<table>
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<tbody>
<tr>
<td>POL 1560</td>
<td>American Government</td>
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</tbody>
</table>

Select five of the following:

- POL 3700 American Presidency
- POL 3701 American Legislative Process
- POL 3702 Law and Society
- POL 3703 American Constitutional Law
- POL 3704 American Political Parties and Elections
an Individualized Curriculum Program (ICP) in consultation with program directors. Currently, Peace and Conflict Studies has an approved ICP that allows interested students to pursue coursework in areas of global and regional studies, communications and dispute resolution, and peace strategies.

The ICP offers the possibility of a comprehensive and focused major and is especially useful to students considering graduate studies or employment with non-profit organizations that need individuals with appropriate backgrounds in conflict resolution and cross-cultural knowledge and skills.

For more information about this minor, contact (330) 941-3437.

**Minor in Foreign Affairs**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>POL 1550</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POL 2640</td>
<td>Contemporary World Governments</td>
<td>3</td>
</tr>
<tr>
<td>or POL 2660</td>
<td>International Relations</td>
<td></td>
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<tr>
<td><strong>International Relations</strong></td>
<td></td>
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<tr>
<td>Select one to three courses from the following:</td>
<td>3-9</td>
<td></td>
</tr>
<tr>
<td>POL 3760</td>
<td>International Political Economy</td>
<td></td>
</tr>
<tr>
<td>POL 3761</td>
<td>United States Foreign Policy</td>
<td></td>
</tr>
<tr>
<td>POL 3764</td>
<td>International Organizations</td>
<td></td>
</tr>
<tr>
<td>POL 3763</td>
<td>International Law</td>
<td></td>
</tr>
<tr>
<td>POL 3768</td>
<td>International Conflict</td>
<td></td>
</tr>
<tr>
<td><strong>Comparative Politics</strong></td>
<td></td>
<td></td>
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<tr>
<td>Select one to three courses from the following:</td>
<td>3-9</td>
<td></td>
</tr>
<tr>
<td>POL 3741</td>
<td>Russia and China: From Revolution to Reform</td>
<td></td>
</tr>
<tr>
<td>POL 3742</td>
<td>Political Development and Political Regimes</td>
<td></td>
</tr>
<tr>
<td>POL 3744</td>
<td>European Politics</td>
<td></td>
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<tr>
<td>POL 3751</td>
<td>Latin American Politics</td>
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</tr>
</tbody>
</table>

Total Semester Hours 18

**Minor in Political Science**

A political science minor will provide the student with a basic understanding of government and social institutions at the national and international level. A minor in Political Science consists of 18 semester hours.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>POL 1560</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>POL 2640</td>
<td>Contemporary World Governments</td>
<td>3</td>
</tr>
<tr>
<td>or POL 2660</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td><strong>Select four upper-division political science courses.</strong></td>
<td>12</td>
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</tr>
</tbody>
</table>

Total Semester Hours 18

**Public Management Program**

The public management track is designed to provide a broad background in government and economics for students who plan a career in national, state, or local government. The program also gives students exposure to specific skills.

This major is designed to prepare students to directly enter the workforce in the public sector, pursue a master of public administration, and pursue careers in the non-profit sector.

Professional training of public servants contributes to the fulfillment of the Mission of Youngstown State University, which states that the "University and public service are seen, not only as interrelated, but also as fundamental to endeavors both within and outside the University."

Because of the required area specialty, a minor is not required for this track.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
<tr>
<td><strong>General Education Requirements</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td></td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td></td>
</tr>
<tr>
<td>Mathematics Requirement</td>
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<td></td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Science</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Social Science (Met in Major - POL 1560, ECON 2610)</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Social and Personal Awareness</td>
<td>6</td>
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<tr>
<td><strong>Foreign Language Requirement</strong></td>
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<td></td>
</tr>
<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<tr>
<td><strong>Major Requirements</strong></td>
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</tr>
<tr>
<td>POL 1560</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

Students interested in further study in the program may design and pursue an Individualized Curriculum Program (ICP) in consultation with program directors. Currently, Peace and Conflict Studies has an approved ICP that allows interested students to pursue coursework in areas of global and regional studies, communications and dispute resolution, and peace strategies.

The ICP offers the possibility of a comprehensive and focused major and is especially useful to students considering graduate studies or employment with non-profit organizations that need individuals with appropriate backgrounds in conflict resolution and cross-cultural knowledge and skills.

For more information about this minor, contact (330) 941-3437.

**Minor in Peace and Conflict Studies**

The university offers a minor in Peace and Conflict Studies with the advice and approval of the chair of the department in which the student is majoring. The multidisciplinary minor focuses on the historical, geographical, political, cultural, psychological, and philosophical dimensions of human conflict and conflict resolution, emphasizing the cross-cultural and global context of contemporary conflict situations and approaches to conflict management and resolution.

The following is a list of approved recommended courses for the minor; the minor consists of a minimum of 18 semester hours, of which at least nine must be accumulated from approved upper-division courses (number 3700 and above).

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>Select a minimum of 18 s.h. from the following recommended courses:</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>HIST 1512</td>
<td>World Civilization from 1500</td>
<td></td>
</tr>
<tr>
<td>HIST 4860</td>
<td>Select Problems in Transnational History</td>
<td></td>
</tr>
<tr>
<td>REL 2601</td>
<td>Introduction to World Religions</td>
<td></td>
</tr>
<tr>
<td>REL 2617</td>
<td>Introduction to Asian Religions</td>
<td></td>
</tr>
<tr>
<td>GEOG 2626</td>
<td>World Geography</td>
<td></td>
</tr>
<tr>
<td>POL 2660</td>
<td>International Relations</td>
<td></td>
</tr>
<tr>
<td>POL 3768</td>
<td>International Conflict</td>
<td></td>
</tr>
<tr>
<td>PHIL 2635</td>
<td>Ethics of War and Peace</td>
<td></td>
</tr>
<tr>
<td>PSYC 3750</td>
<td>Special Topics in Psychology</td>
<td></td>
</tr>
<tr>
<td>SOC 3708</td>
<td>Political Sociology</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Hours 18

Students should consult with the program coordinator in determining the particular composition of the minor.

Students interested in further study in the program may design and pursue an Individualized Curriculum Program (ICP) in consultation with program directors. Currently, Peace and Conflict Studies has an approved ICP that allows interested students to pursue coursework in areas of global and regional studies, communications and dispute resolution, and peace strategies.

The ICP offers the possibility of a comprehensive and focused major and is especially useful to students considering graduate studies or employment with non-profit organizations that need individuals with appropriate backgrounds in conflict resolution and cross-cultural knowledge and skills.

For more information about this minor, contact (330) 941-3437.
Welcome to the programs of Sociology and Anthropology. We are located on the fourth floor of DeBartolo Hall in room 444 and our program phone number is 330-941-3442.

We offer BA degrees in Anthropology and in Sociology. We also minors in seven different areas, including Archaeology, Forensic Anthropology, and others. All of our programs are hands-on, offering students opportunities for internships, fieldwork, and study abroad so that they emerge well-qualified to pursue graduate degrees and rewarding careers.

**SOCIOPY**

Sociology is the scientific study of society, human social relationships, and social institutions. At the core of sociology is the sociological imagination—a need to make the familiar strange and look beyond what is normally taken-for-granted to more nuanced understandings of social life. Much like society itself, sociological investigations are diverse, covering everything from the analysis of strangers interacting on the street to global social movements. The Sociology Program at YSU gives students a broad education in the field of sociology, emphasizing contemporary issues related to inequality, social institutions, gender and the family, deviance and criminology, aging, and research. Students learn how to think critically about human social life, seek answers to research questions, and help others understand how society works and how we might improve it. Our students have the opportunity to intern with a number of local and regional organizations, such as the Northeast Ohio Coalition Against Human Trafficking and Compass Community and Family Services.

**ANTHROPOLOGY**

Anthropology is the cultural and biological study of humankind. It is a discipline that asks such question as, "What makes us human?" "How did we develop biologically and culturally?" "Where did we come from and where are we going?" Through the study of Archaeology, Biological Anthropology,
and Cultural Anthropology at YSU, students explore these questions and the ways in which we begin to answer them. Students are broadly trained in the discipline and emerge well-trained to pursue graduate degrees and careers in and related to anthropology. The program offers numerous opportunities to work with materials in the classroom and lab, including osteological and faunal remains and artifacts. Our students participate on faculty-led archaeological field schools in Guatemala, the Bahamas, and in northeast Ohio and have joined anthropological field schools in Belize, Canada, South Africa, Cyprus, and elsewhere.

**Professor**

Amanda Fehlbaum, Ph.D., Associate Professor
Paul B. Gordiejew, Ph.D., Associate Professor
Qi Jiang, Ph.D., Professor
Loren R. Lease, Ph.D., Associate Professor
Denise A. Narcisse, Ph.D., Associate Professor
Matt O’Mansky, Ph.D., Associate Professor

**Majors**

- BA in Sociology (p. 253)
- BA in Anthropology (p. 252)

**Minors**

- Sociology Minor (p. 255)
- Anthropology, General Minor (p. 255)
- Anthropology, Biological Minor (p. 255)
- Anthropology, Cultural Minor (p. 255)
- Archaeology Minor (p. 255)

**Anthropology**

**ANTH 1500** Introduction to Anthropology 3 s.h.
An exploration of what it means to be human from a biological and cultural perspective using archaeology, bioanthropology, and ethnography to trace over four million years of human development.
*Gen Ed* Social Science.

**ANTH 1503** The Rise and Fall of Civilizations 3 s.h.
Comparative survey of the archaeological evidence on the origins, development, and collapse of the great early civilizations of the world. The transformation of societies from settled villages to urban states in Mesopotamia, Egypt, China, Mexico, and Peru. Analysis of the archaeological discoveries, alternative interpretations, and general theories of cultural evolution.
*Gen Ed* Social Science.

**ANTH 2600** Human Osteology 4 s.h.
An examination of the anatomy of the skeleton in a defleshed state to gain an understanding of the characteristics and personal biology of individuals and exploration of the range of human variation within and between populations.

**ANTH 3701** Social Statistics 4 s.h.
Measurement and interpretation of social data by the use of descriptive techniques. Examines methods of probability theory as a basis for statistical inference, hypothesis testing, correlation, chi-square, and variance analysis.
*Prereq.:* SOC 1500 or ANTH 1500, successful completion of ENGL 1551 and MATH 1501 or a level 3 or higher on the math placement exam.

**ANTH 3702** Archaeology 3 s.h.
An introduction to the methods and subject matter of archaeology in its reconstruction of Paleolithic and prehistoric cultures as inferred from artifacts.
*Prereq.:* ANTH 1500 or ANTH 1503.

**ANTH 3703** Biological Anthropology 4 s.h.
The physical origins and development of the human species as a member of the primate order and the biological bases of human differences disclosed by human paleontology and archaeology.
*Prereq.:* ANTH 1500.
*Cross-listed: BIOL 3704.*

**ANTH 3704** Primates 3 s.h.
Primate evolution throughout the Cenozoic Era, from primate origins to the advent of hominids. Examines research into the natural behavior of a wide range of primates, focusing on the social organization of terrestrial monkeys and apes.
*Prereq.:* ANTH 3703.

**ANTH 3705** Cultural Anthropology 3 s.h.
A cross-cultural comparison of the cultural norms that regulate society, emphasizing the functional prerequisites for the existence of society and individual demands on society.
*Prereq.:* ANTH 1500.
*Cross-listed: AMER 3705.*

**ANTH 3750** Religion and Race 3 s.h.
Examines race theory and its relation to religious studies through consideration of immigration patterns and the ways in which religion has been affixed to markers of identity over the last two hundred years.
*Prereq.:* REL 2601 or SOC 1500 or ANTH 1500.
*Cross-listed: REL 3790 and SOC 3790.*

**ANTH 3760** Cultures of the Old World 3 s.h.
An examination of the ethnography, cultural contributions, and achievements of Old World peoples, which may include the cultures of Europe, Africa, the Middle East, Asia or Australia and Oceania. May be taken up to three times for credit if the topic is different.
*Prereq.:* ANTH 3705 or 6 s.h. in AFST, including AFST 2601.

**ANTH 37600** Cult Old Wr Cult People China 3 s.h.
An examination of the ethnography, cultural contributions, and achievements of Old World peoples, which may include the cultures of Europe, Africa, the Middle East, Asia or Australia and Oceania. May be taken up to three times for credit if the topic is different.
*Prereq.:* ANTH 3705 or 6 s.h. in AFST, including AFST 2601.

**ANTH 3761** Cultures of the New World 3 s.h.
An examination of various topics in New World cultures. Topics vary by semester and may include native South Americans, native North Americans, Native Americans' civil rights, the reservation system, and others. May be taken up to three times for credit if the topic is different.
*Prereq.:* ANTH 1500.

**ANTH 3762** The Power and Meaning of Food 3 s.h.
Explores the relationship between culture and food in its material and symbolic forms. Examines the patterns of production, distribution, exchange, and consumption of food across time and within particular cultural and global contexts. Topics include the place of food in ritual, gift-giving, maintaining identities, and culture change.
*Prereq.:* ANTH 3705.

**ANTH 3775** Native North Americans 3 s.h.
Detailed discussion of the culture and achievements of the tribal peoples native to North America.
*Prereq.:* ANTH 1500.

**ANTH 3777** Bahamian Archaeology 3 s.h.
Examines the prehistory and ecology of the Bahamas and entails archaeological surveys and excavation of sites. May be repeated once.
*Prereq.:* ANTH 3702 or permission of the instructor.
ANTH 3778  Archaeological Techniques  1-9 s.h.
Practice in archaeological field methods, including surveying, mapping, excavation, and artifact analysis. Amount of field work and lab analysis can vary from four weeks to one semester. Credit hours may vary accordingly from 1 to 9 hours with approval of the instructor and department chair.
Prereq.: ANTH 3702 or permission of the chair.

ANTH 3779  Fieldwork in Historical and Industrial Sites Archaeology  3 s.h.
Excavation of New World sites after 1492, culminating in the physical examination of the remains of historical, industrial, and post-industrial sites. Techniques for literature search and fieldwork. May be repeated once with different site or theoretical focus.
Prereq.: ANTH 3702 or permission of chair.

ANTH 3780  Forensic Anthropology  1-4 s.h.
Forensics from the perspective of anthropology, especially through hands-on study of human remains. Methods of determining the sex, age, ancestry, and stature of an individual. Field methods for forensic anthropology and trauma analysis. 4 s.h.
Prereq.: ANTH 2600 or BIOL 3705.

ANTH 3790  Aging in Cross-Cultural Perspective  3 s.h.
Examines the phenomenon of aging from cross-cultural perspectives with an emphasis on cultural evolution and its impact upon the status, roles and cultural values associated with aging and the aged. Listed also as SOC 3790 and GERO 3790.
Prereq.: ANTH 1500 or SOC 1500, or GERO 1501.

ANTH 4800  Undergraduate Research  1-2 s.h.
Research participation under the direction and guidance of a full-time faculty member. Designed to acquaint the advanced student with special research problems associated with various aspects of the discipline. May be repeated to a maximum of 4 s.h.
Prereq.: Permission of chairperson and junior standing.

ANTH 4801  Anthropological Thought  3 s.h.
Analysis of the theories and methodology of the major contributors to contemporary anthropological thought, such as the evolutionist, diffusionist, functional, and multinlinear schools.
Prereq.: ANTH 3705.

ANTH 4815  Anthropology of Religion  3 s.h.
A survey of anthropological approaches to the study of religion, illustrated by a critical consideration of past and present contributions to the field. Study of selected religious systems, areally and topically.
Prereq.: ANTH 3705 or 6 s.h. in REL including REL 2601.

ANTH 4824  Old World Prehistory: Topics  3 s.h.
Examination of the prehistoric development of Old World (Africa, Europe, Far East, Middle East, and Oceanic cultures). May be taken twice for credit if topic is different.
Prereq.: ANTH 3702.

ANTH 4825  New World Archaeology: Topics  3 s.h.
Examination of the archaeological evidence of the development of New World cultures from early prehistoric to late post-industrial times. Topics vary by semester and may include historical archaeology, North American prehistory, Ohio prehistory, Maya, Aztec and Inca, South American prehistory, and others. May be taken up to three times for credit if the topic is different. Some topics may include field work.
Prereq.: ANTH 3702.

ANTH 4850  Research Methods  3 s.h.
An introduction to methods employed in social research. Attention is given to (1) the logic of sociological inquiry and the relationship between theory and methods; (2) the various qualitative and quantitative methods; (3) research design, data collection, organization, analysis, interpretation and application; (4) the social, cultural, political, and ethical context of social research; and (5) computer skills employed in data analysis. Listed also as SOC 4850 or GERO 4850.
Prereq.: SOC 3701 or ANTH 3701.

ANTH 4859  Senior Thesis  1 s.h.
Design and completion of a quantitative or qualitative research proposal for the Senior Capstone in Anthropology.
Prereq.: Senior status in ANTH; ANTH 3701 and ANTH 4801, concurrent with ANTH 4850.

ANTH 4860  Senior Thesis  2-3 s.h.
A capstone experience for the major in anthropology. Implementing and completing a quantitative or qualitative research project and paper on the proposal approved by the thesis advisor during Senior Thesis 1.
Prereq.: Senior status in Anthropology; ANTH 4850 and ANTH 4859.
Gen Ed: Capstone.

ANTH 4877  Method and Theory in Archaeology  3 s.h.
Past and contemporary theory and methodology in archaeology, with emphasis on recent innovations in the U.S. and Europe.
Prereq.: ANTH 3702.

ANTH 4881  Forensic Anthropology  2-4 s.h.
A continuation of Forensic Anthropology 1. An in-depth examination of the human skeletal system, its differentiation from other commonly found animal remains, and the ways in which skeletal remains help determine the cause of death, trauma to skeleton, antemortem skeletal conditions, postmortem interval, postmortem changes to bone, additional aspects of individualization, etc. Prereq. ANTH 3780 with "C" or better.

ANTH 4882  Paleoanthropology  3 s.h.
The origin and evolution of the human species in biological terms from studies of human evolution and emergence of certain critical biocultural essentials. Emphasis on fundamentals of paleoanthropological research, evidence of human evolution, important fossil finds and sites, and phylogenetic relationships.
Prereq.: ANTH 3703 with "C" or better; or BIOL 3705 with "C" or better.

ANTH 4883  Case Studies in Forensic Anthropology  3 s.h.
Introduction to advanced methods of forensic anthropology. The course consists of discussions and analysis of articles and case studies pertaining to forensic anthropology and the role of the forensic anthropologist.
Prereq.: ANTH 4881.

ANTH 4890  Advanced Topics in Archaeology  3 s.h.
Study of select subjects dealing with various aspects of advanced archaeological issues, methodologies, techniques, and applications. Topics vary by semester and include archaeological laboratory techniques and cultural resource management. May be taken twice with different topics.
Prereq.: ANTH 3702.

ANTH 4891  Advanced Topics in Biological Anthropology  3 s.h.
Study of select subjects dealing with various aspects of advanced archaeological issues, methodologies, techniques, and applications. Topics vary by semester and include primate ethology and human paleontology.
Prereq.: ANTH 3703 and 9 s.h. in ANTH.

ANTH 6910  Special Anthropological Problems  3 s.h.
Advanced seminars focusing on independent study at the graduate level. The study of archaeology, its methods and functions; human origins and differentiation; anthropology of religion; and cultural change and its impact. May be repeated with different topic.

Gerontology

GERO 1501  Introduction to Gerontology  3 s.h.
Basic introduction to the interdisciplinary study of aging. Includes social, psychological, economic, cultural, health, and policy issues. Discussion of normal vs. abnormal (disease-related) aspects of aging.
Gen Ed: Social Science.

GERO 3703  Aging and Society  3 s.h.
An interdisciplinary introduction to studies in aging. Examines the impact of population aging and its effect on society at large. Also examines individual aging processes and social significance of aging. Listed also as SOC 3703.
Prereq.: SOC 1500 or GERO 1501.
GERO 3745 Sociology of Health, Illness, and Health Care 3 s.h. Social attitudes toward illness. Cultural and social factors in disease definition of illness, and organization of the health professions and health facilities. Listed also as SOC 3745. Prereq.: SOC 1500, GERO 1501, or admission to NEOMED-YSU program. Gen Ed: Well Being, Social and Personal Awareness.

GERO 3755 Theories of Gerontology 3 s.h. Review and critical analysis of current theories of the social aspects of aging and their use in research. Listed also as SOC 3755. Prereq.: SOC 1500 or GERO 1501.

GERO 3756 Aging and Ethnicity 3 s.h. Aging in American subcultures, noting differences in status/role systems, demographic distributions, life styles, methods of dealing with the elderly, and related problems. Listed also as SOC 3756. Prereq.: SOC 1500 or GERO 1501.

GERO 3757 Aging and Social Policy 3 s.h. Critical examination of social policies and social systems which affect aging and retirement. Listed also as SOC 3757 and POL 3757. Prereq.: SOC 1500, GERO 1501, or POL 1560.

GERO 3758 Long-Term Care 3 s.h. Examines critical issues in long-term care systems, services, and programs. Impacts of social demographic and economic changes on long-term care needs, demands, and supplies. Contemporary trends and future outlooks of long-term care. Listed also as SOC 3758. Prereq.: SOC 1500 or GERO 1501.

GERO 3759 Physical Change and Aging 3 s.h. Designed to provide knowledge about physical aspects of human aging and factors that affect physical aging. Students learn about physical changes that occur naturally with advancing age and changes associated with disease or disability (abnormal changes). Behavioral and inherent factors that influence physical aging are discussed with the goal to increase awareness of prevention strategies. Prereq.: GERO 1501 or SOC 1500.

GERO 3760 Death and Dying 3 s.h. Introduction of the topics of death and dying and the process of, with the following objectives: to sensitize the student to the subject of death and dying, to aid the student in adjusting to the death of a significant other, to help individuals examine their own feelings and reactions to the death and grieving, to make students aware of the different cultural groups’ death and bereavement, and to examine hospice and palliative care benefits. Cross-listed: SOC 3760. Prereq.: GERO 1501 OR SOC 1500.

GERO 3761 Elder Crimes - Elder Justice 3 s.h. Issues in gerontology and aging that affect law enforcement and the criminal justice system. Prereq.: GERO 1501 OR SOC 1500. Cross-listed: CJFS 3761 and SOC 3761.

GERO 3775 Dementia 3 s.h. The understanding of the nature, causes, symptoms, and social consequences of dementia. Attention to the status of aging, caregiving, and to the status of those who suffer from dementia in contemporary society. Prereq.: GERO 1501 or SOC 1500.

GERO 3790 Aging in Cross-Cultural Perspective 3 s.h. Examines the phenomenon of aging from cross-cultural perspectives with an emphasis on cultural evolution and it’s impact upon the status, roles and cultural values associated with aging and the aged. Listed also as SOC 3790 and ANTH 3790. Prereq.: GERO 1501 or ANTH 1500, or SOC 1500.

GERO 4801 Later Life Issues 3 s.h. The course is designed as an advanced course in the issues of later life and long term care services and supports. Cross-Listed: SOC 4801. Prereq.: GERO 3703 or SOC 3703.

GERO 4804 Family, Health, and Aging 3 s.h. Examines family and health related aspects of aging. Positive and negative interactions among family members and caregivers, and their impact on mental and physical quality of life of the elderly. Listed also as SOC 4804. Prereq.: GERO 3703 or SOC 3703.

GERO 4821 Internship in Gerontology 3-15 s.h. Application of gerontological knowledge in settings such as social agencies, government offices, hospitals, nursing homes, or industry. May be repeated up to 15 s.h., but only a maximum of 6 semester hours can be applied to the gerontology major. Prereq.: Junior standing, 9 s.h. of Gerontology, and permission of chairperson.

GERO 4850 Research Methods 3 s.h. An introduction to methods employed in social research. Attention is given to (1) the logic of scientific inquiry and the relationship between theory and methods; (2) the various qualitative and quantitative methods; (3) research design, data collection, organization, analysis, interpretation and application; (4) the social, cultural, political, and ethical context of social research; and (5) computer skills employed in data analysis. Listed also as ANTH 4850 or SOC 4850. Prereq.: SOC 3701, ANTH 3701.

GERO 4851 Capstone in Gerontology 3 s.h. A capstone experience for the interdisciplinary study of aging. Students will complete a major research project. Prereq.: Senior status in Gerontology and SOC 4850. Gen Ed: Capstone.

GERO 4860 Senior Thesis 3 s.h. A capstone experience for the major in gerontology. Designing, implementing, and completing an empirical research project and paper on a topic approved by the thesis advisor. Prereq.: senior status in GERO; GERO 4850 or SOC 4850. Cross-listed: SOC 4860.

GERO 6905 Social Gerontology 3 s.h. Social Gerontology. Integration and application of gerontological theories; major conceptual issues regarding life span development; and contemporary gerontological concepts and research.

GERO 6906 Perspectives in Gerontology 3 s.h. Focus on the major theoretical perspectives of aging and aging related research with a focus on health. Theories from gerontology, epidemiology, sociology, and psychology will be covered.

GERO 6915 Service Delivery Aging Policy 3 s.h. An interdisciplinary analysis of services for older adults including an examination of major policies, programs, and trends in aging.

GERO 6960 Epidemiology of Aging 3 s.h. Integration and application of epidemiologic theories; major conceptual issues regarding epidemiology and aging; and contemporary interdisciplinary concepts and research. Primary focus will be on the disease distribution and leading causes of death among our aging population.

GERO 6998 Anatomy and Physiology of Aging 3 s.h. Using a systems approach, this course will examine the anatomical and physiological changes that occur with aging. It will discuss age-related disorders and evaluate the impact of these changes on activities and daily function.

GERO 6999 Research Methods 3 s.h. This course serves as an introduction to major methodological issues and basic statistics in the social-scientific study of gerontology. Major topics include developmental perspective and conceptualization of change, basic developmental research design, conceptualization of research problems, research design, measurement, and data analysis. This course should enable students to formulate research questions, design studies, and determine measurement devices and methods of analysis from a developmental perspective.
GERO 7001  Long-Term Care  3 s.h.
This course will introduce students to the following topics: who needs long
term care; population distribution of long-term care and its current trends;
long-term care industry; human medicine and long-term care; social structures
and social inequalities in long-term care; culture components of long-term
care; family care and social care; government, laws, and social policies of long-
term care; and long-term care in a global perspective.
Prereq.: GERO 6960.
GERO 7090  Field Practicum  1-9 s.h.
Students will complete a 200-hour placement in an aging-related workplace.
Variable credit 1-6 s.h. May be repeated for up to 9 s.h.
GERO 7094  Selected Topics  3 s.h.
An examination of contemporary topics in the field of gerontology. Examples of
subject areas that may be covered: Nutrition, Pharmacology, Legal, etc.
variable credit 1-3 hours may be repeated for up to 6 credit hours.
GERO 7099  Thesis  1-3 s.h.
A substantive research project with approval of a committee chair and
committee. Variable credit 1-3 s.h. May be repeated for up to 6 s.h.

Sociology

SOC 1500  Introduction to Sociology  3 s.h.
An introduction to the science of human societies and groups: analysis of the
structures, functions, and processes that bring about changes in societies,
groups, communities, classes, and institutions.
Gen Ed: Social Science.
SOC 2601  Social Problems  3 s.h.
A sociological overview of various contemporary social issues, analyzing
significant discrepancies between standards of expectation and actual social
behavior, attempting to ascertain possible causes, and discussing trends and
possible changes.
Gen Ed: Social Science.
SOC 2630  Criminology  3 s.h.
Study of the social context of crime in America. Review of historical theories
offered in explanation of criminal behavior.
SOC 2640  Gender in Society  3 s.h.
Sociological analysis of gender role issues by major institutions of society,
including political, educational, economic and legal systems as well as media
and the family. Focus is on effects of stratification, culture, gender norms, and
the socialization process.
SOC 2650  Human Trafficking  3 s.h.
An introduction to human trafficking by exploring the social constructs that
define the sex and labor trade and understanding how social institutions
support them. Topics include identifying traffickers, buyers and victims/
survivors; legislation; state and local responses; coalitions and law
enforcement; and society’s efforts to prevent trafficking in persons.
Gen Ed: Social Science.
SOC 2690  Identities and Differences  3 s.h.
A study of personal and social issues that shape the understanding and
development of identity and diversity.
Gen Ed: Domestic Diversity, Social and Personal Awareness.
SOC 3700  Minority Groups  3 s.h.
Survey of the origins and characteristics of ethnic and racial minority groups,
with emphasis on the significance of membership in such a group for in-group,
out-group, and community solidarity.
Prereq.: SOC 1500.
Cross-listed: AMER 3700.
SOC 3701  Social Statistics  4 s.h.
Measurement and interpretation of social data by use of descriptive
techniques. Examines methods of probability theory as a basis for statistical
inference, hypothesis testing, correlation, chi-square, and variance analysis.
Listed also as ANTH 3701.
Prereq.: SOC 1500 or ANTH 1500, successful completion of ENGL 1551 and
MATH 1501 or a level 3 or higher on the math placement exam.
SOC 3703  Aging and Society  3 s.h.
An interdisciplinary introduction to studies in aging. Examines the impact
of population aging and its effect on the society at large. Also examines
individual aging processes and social significance of aging. Listed also as
GERO 3703.
Prereq.: SOC 1500 or GERO 1501.
SOC 3705  The Family  3 s.h.
Family and kinship systems as major institutions; their development,
functions, and relation to other basic institutions found in different cultures
and social strata.
Prereq.: SOC 1500 or ANTH 1500.
SOC 3707  Urban Sociology  3 s.h.
A comparative study of cities of pre-industrial and industrial societies,
historical and contemporary. The process of urbanization and changing urban
structure and functions.
Prereq.: SOC 1500.
SOC 3708  Political Sociology  3 s.h.
The social conditions that affect government and politics and that may help to
determine political order and regulate struggles for power; associations and
movements leading to stability or change.
Prereq.: SOC 1500.
SOC 3720  Applied Sociology  3 s.h.
Uses of sociology in practical affairs, providing theory and data for public
policy, institutional reform, social action programs, and social inventions.
Contributions to architectural design, industrial engineering, community
planning, and innovative legislation.
Prereq.: SOC 1500.
Cross-listed: AMER 3720.
SOC 3731  Social Deviance  3 s.h.
Focuses on problems of drug abuse, sexual deviation, crime, and other forms
device. Theoretical approaches to deviant behavior; etiologies and
methods of social control are explored.
Prereq.: SOC 1500 or CJFS 1500.
SOC 3733  White Collar Crime  3 s.h.
Focuses on distinguishing between various types of white collar crime, such
as corporate fraud, corruption of public officials, and environmental crime.
Also examines theoretical explanations for white collar crime and situates it
within larger social contexts of power and status.
Prereq.: SOC 1500 or CJFS 1500.
SOC 3735  Juvenile Delinquency  3 s.h.
Social and psychological factors underlying delinquency; the juvenile court
and probation; treatment and preventive measures.
Prereq.: SOC 1500 or CJFS 1500.
SOC 3736  Crime and the Life Course  3 s.h.
Examines the development, stability, and change of criminal behavior
throughout different stages of the life course. Themes such as criminal
trajectories, transitions, and turning points are discussed.
Prereq.: SOC 1500 or CJFS 1500.
SOC 3740  Complex Organizations  3 s.h.
Structures and processes of large-scale organizations: leadership, control
techniques, tensions, bureaucratic pathologies, organizational change.
Prereq.: SOC 1500.
SOC 3741  Social Movements  3 s.h.
Analysis of the role of social movements, intellectual criticism, and
socioeconomic trends; study of the dynamics of change initiated outside of
regular and institutionalized channels, including mobs and crowds.
Prereq.: SOC 1500.
SOC 3742  Small Group Processes  3 s.h.
A study of small group behavior; influence, attitudes, and values of social
microsystems.
Prereq.: SOC 1500.
SOC 3743  Social Stratification and Inequality  3 s.h.
Comparative analysis of social stratification systems with major emphasis on modern Western societies.
Prereq.: SOC 1500.

SOC 3744  Social Deviance  3 s.h.
Problems of drug abuse, sexual deviation, crime, and other forms of deviance. Theoretical approaches to deviant behavior; etiologies and methods of social control.
Prereq.: SOC 1500.

SOC 3745  Sociology of Health, Illness, and Healthcare  3 s.h.
Social attitudes toward illness. Cultural and social factors in disease definition of illness, and organization of the health professions and health facilities. Listed also as GERO 3745.
Prereq.: SOC 1500, GERO 1501, or admission to NEOMED-YSU program.

SOC 3746  Sociology of the Body  3 s.h.
This course examines the body and its relationship to the self as a product of complex social arrangements and processes. The body is studied as an object of social control and as the focus of shifting race, gender, and sexual categories. Topics include health, medicine, consumerism, sports, and popular culture.
Prereq.: SOC 1500.

SOC 3747  Sociology of Sexuality  3 s.h.
Examines sexuality and how it is perceived, defined, and experienced in the context of society. Sexuality is studied as subject to social norms, attitudes, and beliefs through public and private policies, practices, and institutions. Explores how the social construction of sexuality influences both sexual and non-sexual relationships.
Prereq.: 3 semester hours in Sociology.
Cross-listed: WMST 3747.

SOC 3749  Sociological Theory  3 s.h.
The major theoretical traditions in Sociology emerging from the enlightenment period and evolving to the present.
Prereq.: SOC 1500 or ANTH 2602.

SOC 3750  Religion and Race  3 s.h.
Examines race theory and its relation to religious studies through consideration of immigration patterns and the ways in which religion has been affixed to markers of identity over the last two hundred years.
Prereq.: REL 2601 or SOC 1500 or ANTH 1500.
Cross-listed: REL 3750 and ANTH 3750.

SOC 3752  Evaluation Research  3 s.h.
Introduction to the field of evaluation research of social policy and programs. Current procedures, concepts, and techniques. Social and ethical issues of research.
Prereq.: SOC 3701.

SOC 3755  Theories of Gerontology  3 s.h.
Review and critical analysis of current theories of the social aspects of aging, and their use in research. Listed also as GERO 3755.
Prereq.: SOC 1500 or GERO 1501.

SOC 3756  Aging and Ethnicity  3 s.h.
Aging in American subcultures, noting differences in status/role systems, demographic distributions, life styles, methods of dealing with the elderly, and related problems. Listed also as GERO 3756.
Prereq.: SOC 1500 or GERO 1501.

SOC 3757  Aging and Social Policy  3 s.h.
Critical examination of social policies and social systems which affect aging and retirement. Listed also as GERO 3757 and POL 3757.
Prereq.: SOC 1500, GERO 1501, or POL 1560.

SOC 3758  Long-Term Care  3 s.h.
Examines critical issues in long-term care systems, services, and programs. Impacts of social demographic and economic changes on long-term care needs, demands, and supplies. Contemporary trends and future outlooks of long-term care. Listed also as GERO 3758.
Prereq.: SOC 1500 or GERO 1501.

SOC 3759  Sociology of Dementia  3 s.h.
The understanding of the nature, causes, symptoms, and social consequences of dementia. Attention to the status of aging, and to the status of those who suffer from dementia in contemporary society.
Prereq.: SOC 1500.

SOC 3760  Sociology of Death and Dying  3 s.h.
Analysis of the social aspects of human death, dying, and bereavement using various sociological approaches. Explores data from secondary sources, surveys, and field investigations that relate to the institutional contexts of dying and grieving processes. Includes practical application of sociological analysis of dying and death.
Prereq.: SOC 1500.

SOC 3761  Elder Crimes - Elder Justice  3 s.h.
Issues in gerontology and aging that affect law enforcement and the criminal justice system.
Prereq.: GERO 1501 or SOC 1500 or CJFS 1500.
Cross-listed: GERO 3761.

SOC 3789  Technology and Society  3 s.h.
A critical exploration of how societal needs affect the creation of technologies and how technology affects society. An interdisciplinary approach in examining the complex interactions between humans and their tools.
Prereq.: BIOL 2601 or ENGR 1550 or SOC 1500, and junior standing.

SOC 3790  Aging in Cross-Cultural Perspectives  3 s.h.
Examines the phenomenon of aging from cross-cultural perspectives with an emphasis on cultural evolution and its impact upon the status, roles, and cultural values associated with aging and the aged. Listed also as ANTH 3790 and GERO 3790.
Prereq.: SOC 1500 or ANTH 1500 or GERO 1501.

SOC 3798  Select Topics in Sociology  3 s.h.
In-depth examination of various sociological topics and issues of both current and long-standing interest. May be taken twice with different topics.
Prereq.: 3 s.h. in Sociology.

SOC 3790 ST Culture and People of China  3 s.h.
In-depth examination of various sociological topics and issues of both current and long-standing interest. May be taken twice with different topics.
Prereq.: 3 s.h. in Sociology.

SOC 4800  Undergraduate Research  1-2 s.h.
Research participation under the direction of a faculty member. Designed to acquaint the advanced student with special research problems associated with various aspects of the discipline. May be repeated for a maximum of 4 s.h.
Prereq.: Permission of chairperson and 20 s.h. in Sociology.

SOC 4801  Later Life Issues  3 s.h.
An examination of contemporary issues and concerns among the elderly. Topics include family relations, finances, entitlements, Social Security, quality of life, and euthanasia.
Prereq.: SOC 3703.

SOC 4804  Family, Health, and Aging  3 s.h.
Examines family and health related aspects of aging. Positive and negative interactions among family members and caregivers, and their impact on mental and physical quality of life of the elderly. Listed also as GERO 4804.
Prereq.: SOC 3703 or GERO 3703.

SOC 4810  International Study in Sociology  3 s.h.
Sociological study of a selected international area. Travel to the area of study under the supervision of a Sociology faculty member. The course grade is based on participation in the trip and a term paper or comparable assignments. May be repeated once. Permission of the chairperson.
Bachelor of Arts in Anthropology

A major in anthropology can take several directions. As the study of humankind, a background in anthropology can be immediately useful in many careers such as business, government, law, elementary and secondary education, urban affairs, administration, and industry. Maximum of 6 s.h. may be applied to the Sociology major. Prereq.: Junior standing and at least 9 s.h. of Sociology, and permission of chairperson.

SOCI 4850 Research Methods 3 s.h.
An introduction to methods employed in social research. Attention is given to (1) the logic of scientific inquiry and the relationship between theory and methods; (2) the various qualitative and quantitative methods; (3) research design, data collection, organization, analysis, interpretation and application; (4) the social, cultural, political, and ethical context of social research; and (5) computer skills employed in data analysis. Listed also as ANTH 4850 or GERO 4850. Prereq.: SOC 3701, ANTH 3701.

SOCI 4859 Senior Thesis 1 1 s.h.
Design and completion of a quantitative or qualitative research proposal for the Senior Capstone in Sociology. Prereq.: Senior status in SOC; SOC 3701 and SOC 3749, concurrent with SOCI 4850.

SOCI 4860 Senior Thesis 2 3 s.h.
A capstone experience for the major in sociology. Implementing and completing a quantitative or qualitative research project and paper on the proposal approved by the thesis advisor during Senior Thesis 1. Prereq.: Senior status in Sociology; SOCI 4850 and SOCI 4859.

SOCI 4898 Selected Problems in Sociology and Anthropology 1-3 s.h.
Readings in sociology and anthropology dealing with current problems in theory and methods. Credit is given according to the nature and extent of the problems and the readings. For students planning to enter graduate school. Prereq.: Departmental major in senior year.

SOCI 6900 Special Sociological Problems 3 s.h.
Advanced seminars focusing on independent study at the graduate level; social organization in a changing world; social disorganization (or deviance) and social controls; social and cultural factors in personality development; minority relationships; sociology of law; social change; and comparative institutions.

SOCI 6905 Social Gerontology 3 s.h.
Integration and application of gerontological theories; major conceptual issues regarding life span development; and contemporary gerontological concepts and research.

**INTERNSHIPS AND FIELDWORK IN ANTHROPOLOGY**

Internships are uncommon in Anthropology. However, fieldwork and other hands-on opportunities are available to all Anthropology majors. Anthropology majors may have the opportunity to apply their knowledge during an internship at the Mahoning County Coroner’s Office or through fieldwork and laboratory analyses locally, in Guatemala, in the Bahamas, and elsewhere.

To earn the BA degree the student must satisfy all the degree requirements in the College of Liberal Arts and Social Sciences and take 40 semester hours of courses from the Anthropology curriculum. Required courses are:
See Minors for course requirements.

*Please see your advisor in order to ensure that you are on track to graduate.

*For General Education electives, be sure that you take two courses from each knowledge domain, including a science lab:

http://cms.ysu.edu/general-education/general-education-courses-knowledge-domain

### Year 1

#### Fall
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<td>YSU 1500</td>
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<td>ANTH 1500</td>
<td>Introduction to Anthropology (This course fulfills a GER SS requirement)</td>
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<td>ENGL 1550</td>
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<td>MATH 2623</td>
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<td>ENGL 1551</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>ANTH 37XX+</td>
<td>Archaeology Elective</td>
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<td>ANTH 37xx+</td>
<td>Cultural Anthropology elective</td>
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<td>ANTH 37xx+</td>
<td>Anthropology elective</td>
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<td>37xx+ Course in Minor</td>
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<td>ANTH 37XX+</td>
<td>Anthropology Elective</td>
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<td>37xx+ Course in Minor</td>
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<td>ANTH 4800</td>
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<td>37xx+ Upper division elective course</td>
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**Total Semester Hours** 119-120

Placement test in English, math, and foreign languages required before registration for classes.

### LEARNING OUTCOMES

The department’s learning outcomes for anthropology majors are as follows:

- Students can demonstrate comprehension of the fundamental principles and concepts of the four field holistic approach to anthropology.
- Students can evaluate anthropological theories and guiding ethics.
- Students can evaluate the scientific process and research methods. Students can evaluate the importance of past or present cultures, cultural variation, and cultural change in the global context.
- Students can analyze evolutionary biology using mechanism of evolutionary change.

### Bachelor of Arts in Sociology

A major in sociology is for advanced graduate/professional study of sociology, law, counseling, social work, criminal justice, urban development, education, and other fields requiring work beyond the bachelor’s level. A major in sociology also prepares students for employment in:

- government agencies
- businesses
- hospitals
- education
- urban affairs
- personnel

To earn the BA degree, the student must satisfy all the degree requirements in the College of Liberal Arts and Social Sciences and take 31 semester hours of courses from the sociology curriculum. Required courses are:

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<tr>
<td>YSU 1500</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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**General Education Requirements**

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<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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Mathematics Requirement

S.H.
Bachelor of Arts in Sociology

Arts and Humanities 6
Natural Sciences (one course must include a lab) 7
Social Science 6
Social and Personal Awareness 6

Foreign Language Requirement 8
FNLG 1505  Elementary Foreign Language 4
FNLG 1506  Intermediate Foreign Language 4

Major Requirements
SOC 1500  Introduction to Sociology 3
SOC 3701  Social Statistics 4
SOC 3749  Sociological Theory 3
SOC 4850  Research Methods 3
SOC 4859  Senior Thesis 1 1
SOC 4860  Senior Thesis 2 3

Sociology Electives
Select one Sociology course from each Sociology domain 18

- **Domain 1: Social Inequality**
  SOC 2640, 2690, 3700, 3743, 3748 (Topic: Race, Gender, Social Class, and Crime), or 3798 (Topic: Culture and People of China)

- **Domain 2: Social Institutions**
  SOC 2640, 2650, 3705, 3746, 3748 (Topic: Sociology of Sexuality)

- **Domain 3: Gender and the Family**
  SOC 2640, 3705, 3746, 3798 (Topic: Gender and Work), or 3798 (Topic: Sociology of Sexuality)

- **Domain 4: Deviance and Criminology**
  SOC 2601, 2630, 3731, 3733, 3735, 3736, or 3798 (Topic: Race, Gender, Social Class, and Crime)

- **Domain 5: Aging**
  SOC 3703, 3755, 3757, 3758, 3759, 3760, 3761, or 4801

- **Domain 6: Research and Internships**
  SOC 3720, 4800, 4810, or 4821

Minor Electives
Must complete a minimum number of electives to meet the 120sh total graduation requirement 13

Total Semester Hours 120-122

Students are responsible for satisfying all prerequisites and maintaining a "C" or better in all major and minor requirements and cannot take courses on a "CR/NC" basis.

Students wishing to minor in sociology must complete 18 s.h. by selecting courses from appropriate categories. Students are responsible for satisfying all prerequisites and maintaining a "C" or better in all minor requirements and cannot take courses on a "CR/NC" basis.

*Please see your advisor in order to ensure that you are on track to graduate.

*For General Education electives, be sure that you take two courses from each knowledge domain, including a science lab:

For more information, consult General Education Courses by Knowledge Domain (http://cms.ysu.edu/general-education/general-education-courses-knowledge-domain/).

Year 1

**Fall**
YSU 1500  Success Seminar 1
ENGL 1550  Writing 1 1 3
MATH 2623  Quantitative Reasoning 1 3
FNLG 1550  Elementary Foreign Language 1 4
SOC 1500  Introduction to Sociology 3

**Total Semester Hours** 14

**Spring**
ENGL 1551  Writing 2 1 3
CMST 1545  Communication Foundations 3
General Education course 3

**Total Semester Hours** 14

Year 2

**Fall**
SOC 37XX Sociology elective 3
SOC 37XX Sociology elective 3
General Education course 3
General Education course 3
General Education course 3

**Semester Hours** 15

**Spring**
SOC 37XX Sociology elective 3
Course in Minor 3
General Education course 3
General Education course 3
General Education course 3

**Semester Hours** 15

Year 3

**Fall**
SOC 3749  Sociological Theory 3
SOC 37XX Sociology elective 3
Course in Minor 3
37XX Course in Minor 3
37XX Upper division Elective 3

**Semester Hours** 15

**Spring**
SOC 3701  Social Statistics 4
SOC 37XX Sociology elective 3
37XX Course in Minor 3
37XX Course in Minor 3

**Semester Hours** 13

Year 4

**Fall**
SOC 4850  Research Methods 3
SOC 4859  Senior Thesis 1 1
SOC 4800  Undergraduate Research 1
37XX Course in Minor 3
37XX Upper division Elective 3
Elective course 3

**Semester Hours** 14

**Spring**
SOC 4860  Senior Thesis 2 3
Elective course 3
Elective course 3
Elective course 3
Elective course 3

**Semester Hours** 15

Total Semester Hours 118

1 Placement test in English, math, and foreign languages required before registration for classes.

**LEARNING OUTCOMES**

The department’s learning outcomes for sociology majors are as follows:
• Students can demonstrate understanding of the discipline of sociology and its role in contributing to our understanding of social reality.
• Students can critically evaluate various theoretical perspectives in sociology.
• Students can demonstrate comprehension of the scientific process and evaluate various qualitative and quantitative methods.
• Students can synthesize theory and methods by designing, implementing, and completing an empirical research project.
• Students can evaluate research in at least one substantive area within sociology in depth.

Minor in Biological Anthropology

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ANTH 1500</td>
<td>Introduction to Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2600</td>
<td>Human Osteology</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 3704</td>
<td>Primates</td>
<td>3</td>
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<tr>
<td>ANTH 4882</td>
<td>Paleanthropology</td>
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</tr>
<tr>
<td>ANTH 4891</td>
<td>Advanced Topics in Biological Anthropology</td>
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</tr>
<tr>
<td>ANTH 3703</td>
<td>Biological Anthropology</td>
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</table>

Total Semester Hours: 20

Minor in Cultural Anthropology

18 hours required to complete minor. Some courses may be taken twice with different topics.

<table>
<thead>
<tr>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>ANTH 1500</td>
<td>Introduction to Anthropology</td>
<td>3</td>
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<tr>
<td>ANTH 3705</td>
<td>Cultural Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3760</td>
<td>Cultures of the Old World</td>
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<tr>
<td>ANTH 3761</td>
<td>Cultures of the New World</td>
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Select up to two of the following:

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<tbody>
<tr>
<td>ANTH 4801</td>
<td>Anthropological Thought</td>
<td>3</td>
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<tr>
<td>ANTH 4815</td>
<td>Anthropology of Religion</td>
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Total Semester Hours: 18

Minor in General Anthropology

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<tbody>
<tr>
<td>ANTH 1500</td>
<td>Introduction to Anthropology</td>
<td>3</td>
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<tr>
<td>ANTH 3702</td>
<td>Archaeology</td>
<td>3</td>
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<tr>
<td>ANTH 3778</td>
<td>Archaeological Techniques</td>
<td>3</td>
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<tr>
<td>or ANTH 3779</td>
<td>Fieldwork in Historical and Industrial Sites Archaeology</td>
<td>3</td>
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<td>ANTH 3775</td>
<td>Native North Americans</td>
<td>3</td>
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<tr>
<td>ANTH 4824</td>
<td>Old World Prehistory: Topics</td>
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<tr>
<td>ANTH 4825</td>
<td>New World Archaeology: Topics</td>
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<tr>
<td>ANTH 4877</td>
<td>Method and Theory in Archaeology</td>
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<tr>
<td>ANTH 4890</td>
<td>Advanced Topics in Archaeology</td>
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Students may substitute one of the following for an elective course:

| GEOG 2611 | Geospatial Foundations            | 3    |

Total Semester Hours: 18

Minor in Archaeology

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<tr>
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<td>ANTH 1500</td>
<td>Introduction to Anthropology</td>
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<tr>
<td>ANTH 1503</td>
<td>The Rise and Fall of Civilizations</td>
<td>3</td>
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<tbody>
<tr>
<td>ANTH 3701</td>
<td>Aging and Society</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3755</td>
<td>Theories of Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3756</td>
<td>Aging and Ethnicity</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3757</td>
<td>Aging and Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 3759</td>
<td>Sociology of Dementia</td>
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</table>

Total Semester Hours: 19

Forensic Anthropology Minor

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<td>Introduction to Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 2600</td>
<td>Human Osteology</td>
<td>4</td>
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</table>

Total Semester Hours: 18
Department of Psychological Sciences and Counseling

Welcome to the Psychology Program

Psychology is a great major! The Bachelor of Arts Program in Psychology is the largest major in the College of Liberal Arts and Social Sciences, and one of the most popular at YSU because an understanding of human behavior is essential for most professions and careers.

The Bachelor of Arts degree may be appropriate for students seeking:

- a general liberal arts degree
- paraprofessional employment
- preparation for graduate study in psychology

We have faculty who teach all major specialties of the field including clinical, personality, learning, cognitive, developmental, physiological, health, and social psychology.

As the theme of the Psychology Program is Student and Community Success, faculty members conduct research into topics such as resilience and protective factors; mental and physical health, wellness, and fitness; learning persistence; motivation, personal beliefs; and developing critical thinking.

We are unique because we

- are focused upon student success,
- have small classes that are mostly taught by full-time faculty members,
- conduct personal advising,
- inspire students to participate in research opportunities with faculty,
- encourage student engagement through study-abroad experiences, traveling to conferences, joining Psi Chi, and doing fieldwork / internship placements.

For more information, visit the Psychology (http://www.ysu.edu/academics/college-liberal-arts-social-sciences/psychology-major/) Program or call (330) 941-3401

The Bachelor of Arts in psychology can be earned in eight semesters if students average 15-16 hours per semester. Psychology majors must select an official minor as listed in the Undergraduate Catalog.

Chair
Jeffrey T. Coldren, Ph.D., Professor, Chair

Professor
Jeffrey B. Allen, Ph.D., Professor
Jane Beese, Ed.D., Associate Professor
Kristin L. Bruns, Ph.D., Assistant Professor
Stephen R. Flora, Ph.D., Professor
Karen Giorgetti, Ph.D., Associate Professor

Carrie R. Jackson, D.Ed., Assistant Professor
Charles Jeffords, Ed.D., Assistant Professor
James Juergensen, Ph.D., Assistant Professor
Victoria E. White Kress, Ph.D., Professor
Karen H. Larwin, Ph.D., Associate Professor
Matthew Lindberg, Ph.D., Associate Professor
Don Martin, Ph.D., Professor
Kenneth L. Miller, Ph.D., Professor
Jake J. Protivnak, Ph.D., Professor
Ying Joy Tang, Ph.D., Assistant Professor
Richard W. VanVoorhis, D.Ed., Associate Professor

Lecturer
David B. Fruehstorfer, Ph.D., Lecturer
Emily Herman, Ph.D., Lecturer
Swati Sethi, M.A., Senior Lecturer
Paul E. Yarab, Ph.D., Lecturer

Majors

- BA in Psychology (p. 259)
- BA in Psychology · Pre-Physical Therapy (p. 260)

Minors

- General Psychology Minor (p. 261)
- Developmental Psychology Minor (p. 261)
- Psychology of Mental Health Minor (p. 261)

PSYC 1560 General Psychology 3 s.h.
An examination of scientific and clinical approaches to understanding the relationships between one’s physical, mental, and emotional well-being, and quality of life, including the basic principles governing the growth and maintenance of behavior, emotion, and cognition.
Gen Ed: Social Science.

PSYC 2617 Research Methods for Psychology 3 s.h.
An introduction to psychological research methods. Students learn how to conduct ethical research and report their findings as well as to critically evaluate the research of others.
Prereq.: "C" or better in PSYC 1560, psychology major or minor, or consent of instructor.

PSYC 2618 Statistics for Psychology 4 s.h.
Further exploration of psychological research methods and statistical analysis, with emphasis on descriptive and inferential techniques. Three hours of lecture, two hours of lab per week.
Prereq.: "C" or better in PSYC 2617 and psychology major, or consent of instructor.

PSYC 2692 Human Sexuality 3 s.h.
An interdisciplinary approach to the study of human sexuality. Listed also as PHLT 2692.
PSYC 3700  Social Psychology  3 s.h.
Examination of the influence of social interactions on the thoughts, feelings, and behaviors of the individual and the group.
Prereq.: PSYC 1560.
Gen Ed: Social Science.

PSYC 3700L  Social Psychology Laboratory  1 s.h.
An introduction to planning and conducting social psychological research. Topics include creating participant impact while minimizing loss of control, reducing demand characteristics and experimenter bias, and enhancing mundane and experimental realism. Two hours per week.
Prereq.: PSYC 2617 with grade of “C” or better and PSYC 3700 or PSYC 3700H (may be taken concurrently).

PSYC 3702  Abnormal Psychology  3 s.h.
Patterns of deviant behavior, including current systems of classification; classic syndromes; the nature and trend of major maladjustments; possible causative factors; and methods of prevention and treatment.
Prereq.: PSYC 1560.

PSYC 3702L  Abnormal Psychology Laboratory  1 s.h.
An introduction to conducting research on psychological disorders, to include a critical review of research literature, examination of case studies, and gathering field-based data. Two hours per week.
Prereq.: PSYC 2617 with grade of “C” or better and 3702 or PSYC 3702H (may be taken concurrently).

PSYC 3705  Psychology of Learning  3 s.h.
A study of the learning process with emphasis on factors such as reinforcement, respondent conditioning, discrimination, generalization, transfer, etc.; an introduction to modern learning theory.
Prereq.: PSYC 2617.

PSYC 3705L  Psychology of Learning Laboratory  1 s.h.
Laboratory studies of learning processes. Students use observational and data-recording techniques relevant to investigations of learning processes. Laboratory activities include investigations of classical conditioning, reinforcement, shaping, extinction, practice effects or other phenomena. Two hours per week.
Prereq.: PSYC 2617 with grade of “C” or better and PSYC 3705 (may be taken concurrently).

PSYC 3707  Psychology of Intimate Relationships  3 s.h.
Psychological principles pertaining to intimate relationships, both marital and non-marital, and family dynamics. Includes topics such as communication, problem solving, domestic violence, and sexuality.
Prereq.: PSYC 1560.

PSYC 3709  Psychology of Education  3 s.h.
Principles of psychology as applied to the educational process, including characteristics of the individual learner, the classroom, the instructor, methods and techniques, and other factors in the learning process.
Prereq.: PSYC 1560.

PSYC 3709L  Psychology of Education Lab  2 s.h.
This class will meet regularly and will include supervised field work hours to be arranged. Criminal background check required.
Prereq.: PSYC 1560.
Coreq.: PSYC 3709 or consent of instructor.

PSYC 3710  Psychophysiology  3 s.h.
An introduction to the relationship between the psychological and physiological basis of behavior. Response systems, such as cardiovascular, respiratory, and gastrointestinal, as well as applications of principles and theories.
Prereq.: PSYC 2617, concurrent with PSYC 3710L.

PSYC 3710L  Psychophysiology Laboratory  1 s.h.
Measurement and research techniques in basic and applied psychophysiology.
Two hours laboratory-discussion.
Prereq.: Must be taken concurrently with PSYC 3710.

PSYC 3712  Industrial/Organizational Psychology  3 s.h.
Principles of psychology applied to business and industry with emphasis upon both personnel and organizational behavior. Topics include job analysis, selection, performance appraisal, organizational development, job satisfaction, motivation, and leadership.
Prereq.: PSYC 2617 or equivalent.

PSYC 3720  Motivation  3 s.h.
Classical and contemporary theories of motivation. Overview of research and theory on the interactive role of biological, learned, and cognitive components in motivation of human behavior, including emotion, need for achievement, affiliation, and power.
Prereq.: PSYC 2617.

PSYC 3724  Advanced Statistical Methods in Psychology  3 s.h.
A continuation of inferential statistics: complex analysis of variance and nonparametric statistics; additional study of special correlational techniques and concepts of regression and prediction. Recommended for the student preparing to seek an advanced degree.
Prereq.: “C” or better in PSYC 2618.

PSYC 3728  Physiological Psychology  3 s.h.
The structural-functional relationships of the various divisions of the neural system, their relationship to the organism as a whole, and their contributions to human behavior.
Prereq.: PSYC 2617.

PSYC 3728L  Physiological Psychology Laboratory  1 s.h.
An introduction to experimental methods for studying effects of environmental stimuli on brain function and behavior in animals. Two hours per week. Permit required.
Prereq.: PSYC 2617 with grade of “C” or better and PSYC 3728 (may be taken concurrently).

PSYC 3730  Psychology of Gender  3 s.h.
An exploration of psychological research and theories as they apply to gender issues. An optional lab is available.
Prereq.: PSYC 1560.

PSYC 3730L  Psychology of Women Laboratory  1 s.h.
Laboratory and field-based research techniques relating to the study of women and to gender similarities and differences. Two hours per week.
Prereq.: PSYC 2617 with grade of “C” or better and PSYC 3730 (may be taken concurrently).

PSYC 3734  ABA Principles 1: Applied Behavior Analysis  3 s.h.
Scientific and conceptual foundations of applied behavior analysis. Basic principles of behavior analysis and application in applied settings are emphasized. The behavioral approach is contrasted with other approaches to the understanding and treatment of behavior, with a focus on scientific criteria and methodological differences. Ethical standards are covered.
Prereq.: PSYC 1560.

PSYC 3740  Psychological Measurement  3 s.h.
Theories and principles of test construction, and an overview of psychological tests and questionnaires use in mental health, educational, and vocational settings.
Prereq.: PSYC 2618.

PSYC 3740L  Psychological Measurement Laboratory  1 s.h.
Application of psychological measurement techniques, test construction, and psychometric analyses. Optional lab, but must be taken concurrently with PSYC 3740.
Prereq.: PSYC 2618.

PSYC 3750  Special Topics in Psychology  3 s.h.
Selected areas of study not covered in the mainstream curriculum. May be repeated with different topics to a maximum of 9 s.h. toward the major.
Prereq.: PSYC 1560.
PSYC 3750S Special Topics Behavior Modification Applied to Personal and Professional Life 3 s.h.
3750. Special Topics in Psychology. Selected areas of study not covered in the mainstream curriculum. May be repeated with different topics to a maximum of 9 s.h. toward the major.
Prereq.: PSYC 1560.

PSYC 3755 Child Development 3 s.h.
Foundations of human development from conception through approximately the first decade of life. Fundamental issues of developmental processes in biological, cognitive, and social-emotional domains and their broader implications for society and later development of the individual.
Prereq.: PSYC 1560.
Gen Ed: Social Science.

PSYC 3755L Child Development Laboratory 1 s.h.
Experimental and nonexperimental research methods for gathering data on the development of children. Two hours per week. A criminal background check is required to take the course.
Prereq.: PSYC 2617 with "C" or better and PSYC 3755 (may be taken concurrently).

PSYC 3756 Adolescent Development 3 s.h.
Human development from preteen to young adulthood.
Prereq.: PSYC 1560.

PSYC 3757 Adult Development 3 s.h.
Human development from adulthood through old age.
Prereq.: PSYC 1560.

PSYC 3758 Lifespan Development 3 s.h.
Study of theory and research on development from conception to death. Focus upon psychological, physiological, social and cultural influences. May not be taken for credit if the student has received credit for two or more of PSYC 3755, PSYC 3756, PSYC 3757.
Prereq.: PSYC 1560.

PSYC 3760 Perception 3 s.h.
Theories and experimental evidence on how environmental, physiological, and personal factors influence the reception, organization, and interpretation of sensory input.
Prereq.: PSYC 2617; Must be taken concurrent with 3760L.

PSYC 3760L Perception Laboratory 1 s.h.
Laboratory demonstrations and experiments using research techniques in perception. Two hours per week.

Concurrent: PSYC 3760.

PSYC 3761 Cognition 3 s.h.
Experimental methods, research findings, and current theories concerned with human cognitive processes. The information-processing approach, focusing on how information is transformed, stored, manipulated, and retrieved. Topics include attention, pattern recognition and categorization, memory, and language.
Prereq.: PSYC 2617.

PSYC 3761L Cognition Laboratory 1 s.h.
Laboratory demonstrations and experiments using research techniques in cognition. Two hours per week.
Prereq.: PSYC 2617 with grade of "C" or better.
Coreq.: PSYC 3761.

PSYC 3770 Individual Study 1-2 s.h.
Individual study of a special problem, or a review of the literature relating to a specific psychological problem or issue. A written report is required, one copy of which remains on file in the department. May be repeated for a maximum of 4 s.h. with different problems.
Prereq.: PSYC 1560 and consent of the chairperson.

PSYC 3775 Personality 3 s.h.
A critical overview of the major personality theories and theorists in the field of psychology, their application to the understanding of everyday life and a description of the pertinent research applicable to the evaluation of personality theories.
Prereq.: PSYC 1560.

PSYC 3777 Cross-Cultural Social Psychology 3 s.h.
A psychological examination of the impact of culture on individual social behavior as applied to topics such as attribution, moral reasoning, gender differences, and group dynamics.
Prereq.: PSYC 3700 or ASST 1550.

PSYC 3779 Careers in Psychology 3 s.h.
Overview of professional development, including information on career preparation, job search strategies, and graduate studies.
Prereq.: PSYC 1560.

PSYC 3780 Psychological Aspects of Disease and Death 3 s.h.
The primary factors affecting an individual's attitude toward illness, bereavement, and mortality. The psychological and physiological aspects of disease processes and death.
Prereq.: PSYC 1560.

PSYC 3785H Honors Seminar in Psychology 1 s.h.
Study of selected topics within psychology suitable to the honors program.
Prereq.: Admission to the Psychology Honors Program, permit required.

PSYC 3790 Field Work in Psychology 3 s.h.
Exploration of different types of work and issues encountered in professional positions within the field of psychology. Supervised field work hours (approximately 4 hours per week) will be arranged. Criminal background check required. May be repeated one time.
Prereq.: 9 s.h. in Psychology, junior/senior standing, and consent of chair.

PSYC 4800 Introduction to Psychotherapy 3 s.h.
A critical overview of major psychotherapeutic approaches to mental health including an evaluation of empirical validity. Students will develop an increased sensitivity to multicultural and ethical issues.
Prereq.: PSYC 3702 or PSYC 3775.

PSYC 4815 Health Psychology 3 s.h.
Psychosocial factors that affect the promotion and maintenance of health, as well as the prevention and treatment of illness.
Prereq.: 6 s.h. of 3700-level PSYC courses.

PSYC 4835 Special Topics in Developmental Psychology 3 s.h.
Advanced and specialized topics in developmental psychology. Topics vary over semesters, and may include the study of infancy, the development of exceptional children, cross-cultural developmental psychology, among others. May be repeated with different topics to a maximum of 6 s.h. toward the major.
Prereq.: PSYC 3755 or PSYC 3756 or PSYC 3757 or PSYC 3758.

PSYC 4841 History of Psychology 3 s.h.
The development of scientific psychology, with major emphasis on trends since the mid-19th century.
Prereq.: 9 s.h. of psychology.

PSYC 4850 Seminar 2 s.h.
Major topics in psychology not covered in listed courses. Two s.h. may be applied to the psychology major.
Prereq.: Senior standing in psychology, or consent of instructor.

PSYC 4857 Biopsychological Aspects of Health and Aging 3 s.h.
Broad overview of development and change across the adult lifespan, focusing on an examination and understanding of biological aging and how they affect functioning, adjustment, and wellness. Distinction between primary aging (normal, universal biological changes) and secondary aging (disease, lifestyle-determined changes) will be made.
Prereq.: PSYC 3757 or PSYC 3758.
PSYC 4890 Senior Thesis 1 s.h.
Data collection and a research paper on a topic approved by the thesis advisor. This project takes two semesters to complete. Must be repeated for a maximum of 2 s.h.
Prereq.: Senior status, grade of "C" or better in PSYC 2618, one PSYC lab course, & consent of thesis advisor & chair.
Gen Ed: Capstone.

PSYC 4891H Honors Thesis 1 s.h.
The student prepares an empirical research paper on a topic approved by an honors thesis advisor and honors thesis committee. May be repeated for a maximum of 4 s.h.
Prereq.: Senior status, C or better in PSYC 2618, one PSYC lab course, consent of thesis advisor & chair, and admission into the Honors Program.
Gen Ed: Capstone.

PSYC 4895 Senior Psychology Capstone Experience 2 s.h.
A capstone experience for the major in psychology.
Prereq.: Senior status, grade of "C" or better in PSYC 2618, one PSYC lab course, and consent of thesis advisor and chair.
Gen Ed: Capstone.

Bachelor of Arts in Psychology

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<tr>
<th>COURSE</th>
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<tr>
<td>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<td>Mathematics Requirement</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<td>FNLG 2600</td>
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<td>PSYC 1560</td>
<td>General Psychology</td>
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<td>PSYC 2617</td>
<td>Research Methods for Psychology</td>
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<tr>
<td>PSYC 2618</td>
<td>Statistics for Psychology</td>
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<tr>
<td>Clinical</td>
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<tr>
<td>PSYC 3702</td>
<td>Abnormal Psychology</td>
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<tr>
<td>or PSYC 3775</td>
<td>Personality</td>
<td></td>
</tr>
<tr>
<td>Social/Developmental</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Only two development courses may count towards the major.</td>
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<tr>
<td>Select at least one of the following:</td>
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<tr>
<td>PSYC 3700</td>
<td>Social Psychology</td>
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<tr>
<td>PSYC 3755</td>
<td>Child Development</td>
<td></td>
</tr>
<tr>
<td>PSYC 3756</td>
<td>Adolescent Development</td>
<td></td>
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<tr>
<td>PSYC 3757</td>
<td>Adult Development</td>
<td></td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<tr>
<td>Learning/Perception/Cognition</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select at least one of the following:</td>
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</tr>
<tr>
<td>PSYC 3705</td>
<td>Psychology of Learning</td>
<td></td>
</tr>
<tr>
<td>PSYC 3760 &amp; 3760L</td>
<td>Perception and Perception Laboratory</td>
<td></td>
</tr>
<tr>
<td>PSYC 3761 &amp; 3761L</td>
<td>Cognition and Cognition Laboratory</td>
<td></td>
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<tr>
<td>Physiological</td>
<td></td>
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<td>Select at least one of the following:</td>
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<tr>
<td>PSYC 3710 &amp; 3710L</td>
<td>Psychophysiology and Psychophysiology Laboratory</td>
<td></td>
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<tr>
<td>PSYC 3728</td>
<td>Physiological Psychology</td>
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<tr>
<td>Capstone Course</td>
<td></td>
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<tr>
<td>Required - Select one of the following:</td>
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<td>2</td>
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<tr>
<td>PSYC 4890</td>
<td>Senior Thesis (repeated for 2 s.h.)</td>
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<tr>
<td>PSYC 4891H</td>
<td>Honors Thesis (repeated for 2 s.h.)</td>
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</tr>
<tr>
<td>PSYC 4895</td>
<td>Senior Psychology Capstone Experience</td>
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<tr>
<td>Additional Courses</td>
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<tr>
<td>Select 9 hours in courses applicable to the psychology major, excluding PSYC 3770 or PSYC 3790.</td>
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<td></td>
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<tr>
<td>Select 3 hours in any course applicable to the major.</td>
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<td>Minor Requirement</td>
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<td>18</td>
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<tr>
<td>Electives</td>
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<td>120-124</td>
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Two laboratories related to any psychology course are required.

Note: Remedial coursework needs to be taken first and will most likely require students to attend summer sessions in order to complete a BA in Psychology within four years.

Year 1

<table>
<thead>
<tr>
<th>Year 1</th>
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<tbody>
<tr>
<td>Fall</td>
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</tr>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology (Social Science)</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
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<td>First-Year Experience / GER Elective</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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<td>Semester Hours</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>PSYC 26XX/37XX Social and Personal Awareness (e.g. PSYC 3707)</td>
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<tr>
<td>Natural Science 15XX/26XX</td>
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</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
<tr>
<td>Arts/Humanities 15XX/26XX</td>
<td></td>
</tr>
<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<td>Semester Hours</td>
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Year 2

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<td>Arts/Humanities 15XX/26XX</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
</tr>
<tr>
<td>PSYC/Social Science 37XX (e.g. PSYC 3700)</td>
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<td>Semester Hours</td>
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<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>PSYC 2618</td>
<td>Statistics for Psychology</td>
</tr>
<tr>
<td>Natural Science + Lab 15XX/26XX</td>
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<td>Minor 15XX/26XX/37XX course</td>
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Bachelor of Arts in Psychology - Pre-Physical Therapy Track

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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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<td>Foreign Language Requirement</td>
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<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<tbody>
<tr>
<td>PSYC 3704</td>
<td>Psychology of Learning</td>
<td>3</td>
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<tr>
<td>PSYC 3755</td>
<td>Child Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3756</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3757</td>
<td>Adult Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<td>PSYC 3775</td>
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<td>PSYC 3776</td>
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<tr>
<td>PSYC 3777</td>
<td>Adult Development</td>
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<tr>
<td>PSYC 3778</td>
<td>Lifespan Development</td>
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<tbody>
<tr>
<td>BiOL 2601</td>
<td>General Biology: Molecules and Cells</td>
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<tr>
<td>&amp; 2601L</td>
<td>General Biology: Molecules and Cells Laboratory</td>
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<tr>
<td>BiOL 2602</td>
<td>General Biology: Organisms and Ecology</td>
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<tr>
<td>&amp; 2602L</td>
<td>General Biology: Organisms and Ecology Laboratory</td>
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<tr>
<td>BiOL 3704</td>
<td>Introduction to Human Gross Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 3705L</td>
<td>and Introduction to Human Gross Anatomy Laboratory</td>
<td></td>
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</tbody>
</table>

Learning Outcomes
1. Students will discriminate amongst the fundamental psychological concepts.
2. Students will demonstrate the ability to clearly communicate ideas in both oral & written forms using APA style.
3. Students will evaluate research using professionally accepted criteria.
4. Students will devise solutions to real-life problems by applying psychological concepts.
5. Students will interpret topics and discussions related to human diversity.
Minor in Developmental Psychology

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
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<td>PSYC 3755</td>
<td>Child Development</td>
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<td>PSYC 3756</td>
<td>Adolescent Development</td>
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<td>PSYC 3757</td>
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<tr>
<td>An additional 6 s.h. in Psychology from the following courses</td>
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<tr>
<td>PSYC 2692</td>
<td>Human Sexuality</td>
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<tr>
<td>PSYC 3702</td>
<td>Abnormal Psychology</td>
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<tr>
<td>PSYC 3709</td>
<td>Psychology of Education</td>
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<tr>
<td>PSYC 3734</td>
<td>ABA Principles 1: Applied Behavior Analysis</td>
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<tr>
<td>PSYC 4835</td>
<td>Special Topics in Developmental Psychology</td>
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Total Semester Hours 18

Minor in General Psychology

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<tr>
<td>PSYC 1560</td>
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<td>PSYC 3700</td>
<td>Social Psychology</td>
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<tr>
<td>PSYC 3702</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 3775</td>
<td>Personality</td>
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<tr>
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<td>PSYC 3755</td>
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</tr>
<tr>
<td>PSYC 3756</td>
<td>Adolescent Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3757</td>
<td>Adult Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
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</tr>
<tr>
<td>Any additional 6 S.H. in Psychology</td>
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Total Semester Hours 18

Minor in Psychology of Mental Health

<table>
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<tbody>
<tr>
<td>PSYC 1560</td>
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<tr>
<td>PSYC 3702</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3775</td>
<td>Personality</td>
<td>3</td>
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<tr>
<td>PSYC 4800</td>
<td>Introduction to Psychotherapy</td>
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</tr>
<tr>
<td>Any additional 6 S.H. in Psychology</td>
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</table>

Total Semester Hours 18

Associate of Arts in CLASS Associate of Arts

Welcome! The Beeghly College of Liberal Arts, Social Sciences, and Education offers a general associate-level degree to students. This two-year degree encompasses general education courses, a concentration of the humanities, social sciences, or natural sciences, and elective hours.

The Associate of Arts (AA) degree allows students to: a) increase their earning potential or increase their level of responsibility within a current position; b) complete YSU's Ohio transfer module (OTM) which ensures coursework will transfer to another state institution within Ohio; c) serve as a short-term goal on their way to a baccalaureate level degree; and d) earn a degree using courses already completed.

To inquire about earning the Associate of Arts degree, please contact an advisor in the Division of Academic Advising in the Beeghly College of Liberal Arts, Social Sciences, and Education.

Contact Information

Division of Academic Advising
DeBartolo Hall, Room 121
(330) 941-3413

Associate of Arts (AA) Requirements:

All courses completed for the Associate of Arts general education model must be Ohio Transfer Module (OTM) approved.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
<tr>
<td>General Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>Any General Education math course</td>
<td>3-6</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
<td>Knowledge Domains: (all General Education courses must be OTM approved courses - please consult an academic advisor regarding GER courses)</td>
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<tr>
<td>2 Natural Sciences courses + Lab (one must include a lab)</td>
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<tr>
<td>2 Humanities Courses</td>
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<tr>
<td>2 Social Science Courses</td>
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<tr>
<td>GER Elective (any one additional course from the above knowledge domains)</td>
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<tr>
<td>Concentration Area: Students choose one of three concentration areas (see list below)</td>
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<tr>
<td>Courses in the concentration must have grades of &quot;C&quot; or better</td>
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<tr>
<td>Elective(s): Students must complete electives to total at least 60sh for thmin. AA degree</td>
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The last 20 semester hours and at least 16 s.h. of the concentration area must be completed at Youngstown State University.
## Concentration Areas:

Students choose one concentration area below.

### Humanities

Applicable courses include:

- literature courses in English or Foreign Language departments
- courses in philosophy and religious studies
- survey and/or appreciation courses in the Department of Art, the Department of Communication, the Department of Theatre and Dance, or the Dana School of Music
- AFST 2601 Introduction to Africana Studies 2

### Social Studies

Courses must be selected from the following disciplines:

- Africana Studies (AFST 2600 Introduction to Africana Studies 1 only)
- anthropology
- economics
- human and regional geography
- history
- political science
- psychology
- sociology

### Natural Sciences

Courses must be selected from the following disciplines:

- astronomy
- biology
- chemistry
- environmental science
- geology
- physics
- physical geography
- A&S/STEM 2600 (no longer offered)

## Year 1

### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>Any General Education Math course</td>
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<td>3-6</td>
</tr>
<tr>
<td>Natural Science GER + Lab OTM approved</td>
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</tr>
<tr>
<td>Arts &amp; Humanities GER OTM approved</td>
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**Semester Hours: 14-17**

### Spring

<table>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>Social Science GER OTM approved</td>
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<td>3</td>
</tr>
<tr>
<td>Natural Science GER OTM approved</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Arts &amp; Humanities GER OTM approved</td>
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**Semester Hours: 15**

## Year 2

### Fall

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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Social Science GER OTM approved</td>
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<tr>
<td>Concentration Course</td>
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<td>3</td>
</tr>
<tr>
<td>Concentration Course</td>
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</tbody>
</table>

## Learning Outcomes

All students will:

- (1) Demonstrate effective written communication.
- (2) Develop skills to enter the work force or build upon a liberal arts foundation to succeed in upper division coursework if pursuing a baccalaureate degree.

### Social Studies concentrations:

- (3) Students will demonstrate an understanding of relationships of individuals and groups in their geographical, historical, global, societal, or cultural contexts.

### Humanities concentrations:

- (4) Students will demonstrate an understanding of artistic expression in multiple forms and contexts. (GER Learning Outcome 8)
- (5) Students will demonstrate an understanding of the humanistic perspective including philosophy, ethics, critical thinking, religious inquiry, and diversity.

### Natural Science concentrations:

- (6) Students will demonstrate an understanding of the natural environment and the processes that shape it. (GER Learning Outcome 13)

## Minor in Women's and Gender Studies

### Women's and Gender Studies Program Director

Director: Dr. Cryshanna A. Jackson Leftwich

Room 436 DeBartolo Hall

(330) 941-2114
cajackson@ysu.edu

The University offers a minor in Women's and Gender Studies with the advice and approval of the chair of the department in which the student is majoring. The minor requires completion of 18 hours. For information about the Women's and Gender Studies minor, contact the director or visit Women's and Gender Studies (http://www.ysu.edu/academics/college-liberal-arts-social-sciences/womens-and-gender-studies-minor/).

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMST 2601</td>
<td>Introduction to Women's Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 15 semester hours from the courses listed below, with a minimum of 6 semester hours required at the 3700-level or above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1560</td>
<td>Language, Ethnicity, and Gender</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2617</td>
<td>Women in Literature</td>
<td>3</td>
</tr>
</tbody>
</table>
The Bachelor of General Studies degree (BGS) is a degree-completion option for students who have completed significant coursework but not the requirements for a specific major. Through careful evaluation of coursework already completed at YSU or other colleges and universities, a degree completion plan is constructed for each student. The BGS may also be appropriate for students for whom a general bachelor’s degree may lead to career advancement or for those students who seek the personal satisfaction of having completed a bachelor’s degree.

Individuals who have a bachelor’s degree are not eligible for the BGS degree, and the BGS degree may not be earned concurrently with another bachelor’s degree.

All BGS students complete the requirements of the General Education curriculum (old or new). As such, the goals of the general education curriculum are met by BGS students. They are as follows:

- Write and speak effectively
- Acquire, process, and present quantitative and qualitative information using the most appropriate technologies, including computers
- Reason critically, both individually and collaboratively; draw sound conclusions from information, ideas, and interpretations gathered from various sources and disciplines; and apply those conclusions to one’s life and society

The specific requirements for the completion of the Bachelor of General Studies (B.G.S.) degree are as follows:

A 48-semester-hour concentration with at least 24 s.h. of upper-division credit comprised of:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities (6 s.h.)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Social Science (6 s.h.)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Major Requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two focus areas consisting of 18-24 s.h. each ¹</td>
<td>36-48</td>
<td></td>
</tr>
<tr>
<td>Support courses</td>
<td>0-12</td>
<td></td>
</tr>
<tr>
<td>An approved capstone course</td>
<td>1-3</td>
<td></td>
</tr>
<tr>
<td>Completion of a Cultural/Diversity Requirement (Students are required to complete two classes from an approved list.)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Elective Hours</td>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours Required for Degree: 120 s.h.

¹ Focus-area requirements are submitted by the departments offering the course work in the focus area and are approved by the director of General Studies in coordination with the General Studies Committee.

### Learning Outcomes

All BGS students complete the requirements of the General Education curriculum (old or new). As such, the goals of the general education curriculum are met by BGS students. They are as follows:

- Write and speak effectively
- Acquire, process, and present quantitative and qualitative information using the most appropriate technologies, including computers
- Reason critically, both individually and collaboratively; draw sound conclusions from information, ideas, and interpretations gathered from

### Bachelor of General Studies in General Studies

For more information, visit the Bachelor of General Studies (http://www.ysu.edu/academics/college-liberal-arts-social-sciences/general-studies-major/) webpage.

The Bachelor of General Studies degree (BGS) is a degree-completion option for students who have completed significant coursework but not the requirements for a specific major. Through careful evaluation of coursework already completed at YSU or other colleges and universities, a degree completion plan is constructed for each student. The BGS may also be appropriate for students for whom a general bachelor’s degree may lead to career advancement or for those students who seek the personal satisfaction of having completed a bachelor’s degree.

Individuals who have a bachelor’s degree are not eligible for the BGS degree, and the BGS degree may not be earned concurrently with another bachelor’s degree.

All BGS students complete the requirements of the General Education curriculum (old or new). As such, the goals of the general education curriculum are met by BGS students. They are as follows:

- Write and speak effectively
- Acquire, process, and present quantitative and qualitative information using the most appropriate technologies, including computers
- Reason critically, both individually and collaboratively; draw sound conclusions from information, ideas, and interpretations gathered from various sources and disciplines; and apply those conclusions to one’s life and society

The specific requirements for the completion of the Bachelor of General Studies (B.G.S.) degree are as follows:

A 48-semester-hour concentration with at least 24 s.h. of upper-division credit comprised of:

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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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<tr>
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<td>Two focus areas consisting of 18-24 s.h. each ¹</td>
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</tr>
<tr>
<td>Support courses</td>
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</tr>
<tr>
<td>An approved capstone course</td>
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<td></td>
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<td>Completion of a Cultural/Diversity Requirement (Students are required to complete two classes from an approved list.)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Elective Hours</td>
<td>38</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours Required for Degree: 120 s.h.

¹ Focus-area requirements are submitted by the departments offering the course work in the focus area and are approved by the director of General Studies in coordination with the General Studies Committee.
Minor in Africana Studies

Program Director
Dr. Patrick Spearman
4409 Beeghly Hall
(330) 941-1934
ptspearman@ysu.edu

The University offers a minor in Africana Studies with the advice and approval of the chair of the department in which the student is majoring. The minor requires completion of 18 hours. For information about the Africana Studies minor, contact the director.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFST 2600</td>
<td>Introduction to Africana Studies 1</td>
<td>3</td>
</tr>
<tr>
<td>AFST 2601</td>
<td>Introduction to Africana Studies 2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two courses from the following (6 s.h.):</td>
<td></td>
</tr>
<tr>
<td>ENGL 2620</td>
<td>African Literature</td>
<td></td>
</tr>
<tr>
<td>HIST 3750</td>
<td>History of Modern Africa</td>
<td></td>
</tr>
<tr>
<td>HIST 3751</td>
<td>History of South Africa</td>
<td></td>
</tr>
<tr>
<td>REL 3710</td>
<td>African and Neo-African Religion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two courses from the following (6 s.h.):</td>
<td></td>
</tr>
<tr>
<td>ENGL 4871</td>
<td>The Black Experience in American Literature</td>
<td></td>
</tr>
<tr>
<td>HIST 3730</td>
<td>The Black Experience in American History</td>
<td></td>
</tr>
<tr>
<td>HIST 4801</td>
<td>Select Problems in American History</td>
<td></td>
</tr>
<tr>
<td>REL 3708</td>
<td>African-American Religion</td>
<td></td>
</tr>
<tr>
<td>REL 3750</td>
<td>Religion and Race</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Hours 18

AFST 2600  Introduction to Africana Studies 1  3 s.h.
The social-historical and intellectual heritage of black people in Africa and the Americas.
Gen Ed: Domestic Diversity, Social Science, Social and Personal Awareness.

AFST 2601  Introduction to Africana Studies 2  3 s.h.
The cultural and intellectual heritage of black people in Africa and the Americas as reflected in literature, philosophy, and art.
Gen Ed: Arts and Humanities, Domestic Diversity, Social and Personal Awareness.

AFST 3700  Africana Studies Colloquium 1  3 s.h.
A social studies seminar focusing on the historic, economic, political, or social aspects of the experiences of people of African descent. May be repeated once with different content.
Prereq.: AFST 2600.

AFST 3701  Africana Studies Colloquium 2  3 s.h.
A humanities seminar focusing on the art, music, literature and/or philosophy of people of African descent. May be repeated once with different content.
Prereq.: AFST 2601.

Minors in American Studies

Program Director
Dolores V. Sisco
245 DeBartolo Hall
(330) 941-3422
dvsisco@ysu.edu

American Studies offers students the opportunity to examine the central themes and issues in American life using material and approaches from a variety of disciplines. Students gain awareness of the broad outlines of American history and culture as well as an understanding of important theories of culture and ways of studying American life.

The University offers a minor in American Studies with the advice and approval of the chair of the department in which the student is majoring. The minor requires completion of 18 hours. For information about the American Studies minor, contact the director.

In addition to offering a minor in American Studies, YSU offers a Master of Arts in American Studies. For more information, consult the Graduate Catalog.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMER 2601</td>
<td>American Identity</td>
<td>3</td>
</tr>
<tr>
<td>AMER 3701</td>
<td>Approaches to American Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Four additional upper division courses, selected from the American Studies list of approved courses, from at least two departments other than the department in which the students’ major is housed, and subject to consultation with an American Studies advisor.</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Semester Hours 18

AMER 2601  American Identity  3 s.h.
Study of American Identity through historical, literary, artistic, material, media and other sources. Emphasis on American pluralism and cultural debates over the meaning of American identity.
Gen Ed: Domestic Diversity, Social Science, Social and Personal Awareness.

AMER 2605  Turning Points in United States History 1  3 s.h.
Key episodes in the social, economic, political, and cultural developments of the United States to 1877, exploring how diverse peoples shaped the growing nation.
Cross-listed: HIST 2605.
Gen Ed: Social Science.

AMER 2606  Turning Points in United States History 2  3 s.h.
Key episodes in the social, economic, political, and cultural developments of the United States since 1877, exploring how diverse peoples shaped the growing nation.
Cross-listed: HIST 2606.
Gen Ed: Domestic Diversity, Social Science, Social and Personal Awareness.

AMER 2610  Work and Class in American Culture  3 s.h.
Interdisciplinary thematic exploration of work and class in American culture with emphasis on the Mahoning Valley. Includes the impact of social movements, technological developments, and new ideas and knowledge.
Examine the relationship of class to such social categories as race, gender, sexuality, ethnicity, and place.
Prereq.: Placement in ENGL 1550.
Gen Ed: Social Science.

AMER 3700  Minority Groups  3 s.h.
Survey of the origins and characteristics of ethnic and racial minority groups, with emphasis on the significance of membership in such a group for in-group, out-group, and community solidarity.
Prereq.: SOC 1500.
Cross-listed: SOC 3700.
AMER 3701 Approaches to American Studies 3 s.h.
Survey of central issues and themes in American cultural studies, with emphasis on interdisciplinary approaches and cultural diversity. May focus on a theme chosen by the instructor, such as nature and culture, work, or class in America. May be repeated once with a different topic.

AMER 3705 Cultural Anthropology 3 s.h.
A cross-cultural comparison of the cultural norms that regulate society, emphasizing the functional prerequisites for the existence of society and individual demands on society.
Prereq.: ANTH 2602.
Cross-listed: ANTH 3705.

AMER 3720 Applied Sociology 3 s.h.
Uses of sociology in practical affairs, providing theory and data for public policy, institutional reform, social action programs, and social inventions. Contributions to architectural design, industrial engineering, community planning, and innovative legislation.
Prereq.: SOC 1500.
Cross-listed: SOC 3720.

AMER 3770 American Literature in Historical Perspective 3 s.h.
Poetry, prose, drama, and other forms of literary expression examined within the context of a specific aspect of American social, intellectual, and cultural history. May be repeated once with different topic.
Prereq.: ENGL 3701 or ENGL 3702.
Cross-listed: ENGL 3770.

AMER 4801 American Studies Research Seminar 3 s.h.
Capstone seminar. Focuses on development and implementation of research proposal and current American studies research related to topics chosen by students for their senior projects.
Prereq.: AMER 3701 and approval of Program Coordinator.

AMER 4810 Independent Project in American Culture 1-3 s.h.
Work with faculty advisor on senior projects. A total of 3 s.h. is required for completion of the major. May be repeated with permission of coordinator.
Prereq.: AMER 4801 and approval of Program Coordinator.
Gen Ed: Capstone.

AMER 4815 American Material Culture 3 s.h.
A discussion and analysis of the use and importance of material artifacts as texts for the recovery of the American past. Emphasis on sources not traditionally utilized by historians. Examples include the contextual analysis of children's books, foodways, and sacred spaces.
Prereq.: HIST 2605 and HIST 2606, or AMER 2601 and AMER 3701.
Cross-listed: HIST 4815.

AMER 5845 Work in America 3 s.h.
Examines the changing characteristics, expectations, and representations of work in America. Includes the exploration of demographic, historic, economic, technological, sociological, religious, ethical, popular, and poetic perspectives on work.
Prereq.: Junior standing.
Cross-listed: MGT 5845.

AMER 5850 Class and Culture 3 s.h.
Theories of social class structure and formation, relationships between class and culture, representations of class and work, intersections of class with other aspects of cultural identity (race, gender, sexuality, place), and theories and methods of working-class studies.
Prereq.: Graduate standing or AMER 3701.

AMER 6900 Approaches to American Studies 3 s.h.
Introduction to American studies with emphasis on history of the field, interdisciplinary approaches, and cultural diversity.

AMER 6910 Introduction to Working-Class Studies 3 s.h.
Introduction to developments, approaches, and issues in new working-class studies, including intersections of class with other categories of identity, disciplinary and interdisciplinary perspectives, representations of the working class in the arts and media, and political and economic constructions of class.

AMER 6930 Humanities in the Community 3 s.h.
Opportunities, challenges, and strategies for developing, promoting, and implementing public humanities projects in various settings, including community development and organizing, community-based adult education, and programs in museums and other public humanities organizations.
Prereq.: AMER 6900.

AMER 6970 Teaching Working-Class Studies 3 s.h.
Interdisciplinary teaching strategies focused on incorporating attention to work, class, diversity, and local history and culture into K-12 and college courses.

AMER 6975 Interdisciplinary Teaching 3 s.h.
Introduction to interdisciplinarity and its application in the classroom with emphasis on integration of humanities and social sciences.

AMER 6980 Public Humanities Internship 3 s.h.
Supervised work-and-learning experience in American studies under the direction of an American studies core faculty member and an employee of a participating organization.

AMER 6982 Special Topics 3 s.h.
Specialized topics selected by the staff. May be repeated once with a different topic.
Prereq.: Permission of the American studies program coordinator and instructor.

AMER 6985 Independent Study 3 s.h.
Individual study in American studies or a related discipline under the supervision of a faculty member. May be repeated once.
Prereq.: Permission of the American studies program coordinator and instructor.

AMER 6990 Independent Project 1-3 s.h.
Completion of individual project in a community or school setting. May be repeated for a maximum of three semester hours.
Prereq.: Proposal and review meeting with committee.

The Cliffe College of Creative Arts

Phyllis M. Paul, Dean
Joy Christiansen Erb, Special Assistant to the Dean

The Cliffe College of Creative Arts consists of the following departments:

- Dana School of Music (http://www.ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/)
- Department of Visual and Dramatic Arts (p. 267)

Accreditation

The Department of Art is accredited by the National Association of Schools of Art and Design (https://nasad.arts-accredit.org/), and the Dana School of Music is a member of the National Association of Schools of Music (https://nasm.arts-accredit.org/).

Academic Programs

The college holds as its primary goal the highest quality of instruction, including pre-professional training in areas such as studio art, applied music, and theatre & dance; the training of teachers; and the offering of a wide variety of courses to non-majors from all areas of the University.

The major programs in the college constitute an outstanding basis for an education in the visual and performing arts. Students not pursuing degrees in the Cliffe College of Creative Arts are welcomed and encouraged to participate in special opportunities in art, music, or theatre & dance as a means of broadening and complementing their university experience.
Another important goal of the college is to provide the University and surrounding community optimal opportunities for experiencing the visual and performing arts.

**Degrees, Majors and Minors**

The degrees granted are the Bachelor of Arts (BA), Bachelor of Fine Arts (BFA), and Bachelor of Music (BM).

**Majors are offered in:**

- Studio Art ([https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/department-art/#programsofstudystext](https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/department-art/#programsofstudystext))
- Art Education ([https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/department-art/#programsofstudystext](https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/department-art/#programsofstudystext))
- Music Education ([https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/school-music/programsofstudystext](https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/school-music/programsofstudystext))
- Theatre Studies (p. 290)

**Minors are offered in:**

- 3D Studies
- Art History
- Dance
- Digital Media
- Film Studies
- Graphic Design
- Interactive Design
- Interdisciplinary Studio Art
- Music
- Musical Theatre
- Painting
- Photography
- Printmaking
- Puppetry
- Theatre

**State-of-the-Art Learning Facilities**

The activities of the college are conducted primarily in Bliss Hall, which houses the administrative offices of the college as well as over 150,000 square feet of specialized classrooms, studios, laboratories, and performance areas serving most of the curricular and co-curricular programs in art, music, and theatre & dance. Additional activities are held in the John J. McDonough Museum of Art ([https://ysu.edu/mcdonough-museum/](https://ysu.edu/mcdonough-museum/)), The Butler Institute of American Art ([https://butlerart.com/](https://butlerart.com/)), Beecher Center, Stambaugh Auditorium ([https://www.stambaughauditorium.com/](https://www.stambaughauditorium.com/)), and the DeYor Performing Arts Center ([https://www.youngstownsymphony.com/](https://www.youngstownsymphony.com/)).

**Student Experiences**

Our innovative academic experiences empower our students to succeed in their educational and professional endeavors. Students in Cliffe College have the opportunity to participate in national and international performance venues; numerous study abroad programs, including those in Scotland, Brazil and the United Kingdom; and internships with regional and national businesses, including the Youngstown Business Incubator, Cafaro Company, Pittsburgh Ballet Company, and Time Warner Cable.

**Community Engagement**

Cliffe College is a vital cultural asset to the YSU campus, the Mahoning Valley, and the state of Ohio, hosting more than 400 events every year. Over 40,000 patrons attend lectures, exhibits, performances, the Pipino Performing Arts Series, and the Summer Festival of the Arts annually, contributing more than $25 million to our community’s economy.

**Alumni Success**

Graduates of Cliffe College enjoy fulfilling and broadly diverse careers as visual and performing artists, as well as employment with entities such as the Metropolitan Opera, NBC, Talon International, the Opry Band, Disney, ABC, multiple military ensembles, and in hundreds of university and school classrooms across the country. Our highly accomplished alumni have received Grammy Awards, Purchase Prize (Sculpture), Nashville Songwriters Hall of Fame induction, ASCAP awards, and others.

1 For the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act, please see Title II, Teacher Education of this Undergraduate Catalog.

**Degree Requirements**

**High School Preparation**

In the Undergraduate Catalog under Admissions, please refer to the "New Freshman Applicants" ([https://catalog.ysu.edu/undergraduate/general-information/admission/new-freshman-applicants/](https://catalog.ysu.edu/undergraduate/general-information/admission/new-freshman-applicants/)) page.

All incoming music majors need sufficient musical performance ability to undertake college-level music courses. Voice majors will benefit from taking French, German, and/or Italian in high school.

**Requirements for the BFA, BM, and BA Degrees**

<table>
<thead>
<tr>
<th>Basic Skill Courses (See “General Education Requirements” under “Academic Policies and Procedures” in the undergraduate Catalog)</th>
<th>BFA</th>
<th>BM</th>
<th>BA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550 &amp; ENGL 1551 (Writing 1 &amp; 2)</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
Welcome to Visual & Dramatic Arts

Welcome to Youngstown State University and the Department of Visual & Dramatic Arts (V&DA). The department’s programs in Studio Art, Art Education, Theatre, and Dance embody the YSU mission of inspiring individuals, enhancing futures, and enriching the lives of our students, and the broader community, through rigorous curricula and robust arts programming. Comprehensive professional training combined with excellent liberal arts education makes YSU a leader in Northeast Ohio in preparing students for the challenges that today’s rapidly changing world presents.

The department boasts over 75,000 square feet of highly specialized classrooms, studios, production shops, and media labs, as well as industry standard, state-of-the-art exhibition and performance spaces. Our small class sizes translate to a great deal of one-on-one instruction as students pursue the BFA in Studio Art, BFA in Theatre/Musical Theatre, BSE in Art Education, or BA in Theatre Studies. All students are encouraged to take advantage of global learning opportunities through the department’s faculty-led summer abroad program in Glasgow, Scotland or one of the many study abroad programs available through YSU’s International Programs Office. All of our programs cultivate life-long skills with proven results that can be seen in our impressive and wide-ranging job placement record and in the success of our students gaining entrance into competitive graduate programs upon completion of their studies at YSU.

We invite you to learn more about our programs, tour our facilities, and/or meet with one of our experienced faculty or staff members.

-Stephanie Smith, PhD, Chair, Department of Visual & Dramatic Arts

Contact Information

To learn more about the degree programs, scholarships, exhibitions, performances, faculty, and students, please contact the Department of Visual and Dramatic Arts directly at 330-941-3627. To schedule a personalized campus visit, contact the Cliffe College Coordinator of Admission and Recruitment at 330-941-2346.

Dr. Stephanie Smith, Chair - ssmith@ysu.edu

Department of Art

Introduction

YSU is a leader in Northeast Ohio in preparing students for careers in the visual arts and art education. Accredited by the National Association of Schools of Art & Design (NASAD), our student-centered programs are led by nationally and internationally recognized artist-educators who engage students with experiential-based coursework that encourages interdisciplinary exploration toward furthering our students’ conceptual and technical development.

Students pursuing the BFA in Studio Art select a track in Interdisciplinary Studio Art, Digital Media/Photography, or Graphic + Interactive Design. Whether pursuing the professional degree in studio art or the BSE in Art Education, students enjoy regular opportunities to exhibit their work in the college’s 20,000 square foot McDonough Museum of Art, our boutique-style Solomon Gallery, or our student installation gallery.

Courses of Instruction

Course descriptions may be found in a separate section in the Undergraduate Catalog (https://catalog.ysu.edu/courses/).

For more information, visit The Cliffe College of Creative Arts (p. 265).
3) Students will be able to demonstrate a high level of content expression appropriate to their progression in the program relevant to their chosen artistic medium.

**Mission Statement**

The mission of the Art Program at Youngstown State University is to provide a teaching and learning environment for the development of skills, concepts, and sensitivities essential to professional artists, designers, art educators, and art historians. This mission and the cultural enrichment that it entails are directed at the entire student body and the community as a whole. This mission is accomplished within the context of a local multicultural society, thereby demanding a special concern for the dissemination and sensitivity to a wide cultural heritage.

**Degree Information & Requirements**

The Art Program offers courses that satisfy major requirements in art for the degrees of:

- Bachelor of Fine Arts
- Bachelor of Science in Education

Studio art includes concentrations in Digital Media/Photography, Graphic + Interactive Design, and Interdisciplinary Studio Arts.

The requirements for curricula and for graduation are in accordance with the published regulations of the National Association of Schools of Art and Design (NASAD [https://nasad.arts-accredit.org/]).

In the Bachelor of Fine Arts degree, the programs in studio art are designed to familiarize the student with the basic concepts in art and the language of visual form. Concentration is on the development and involvement of the student with the processes and practices of art. After the foundation sequence, passing ART 1503 Foundation Portfolio Review (usually spring term of the freshman year) is required to continue in the program. Also, BFA students are required to exhibit in a senior show at the John J. McDonough Museum of Art.

Students who wish to qualify for PK-12 licensure are expected to complete a minimum of 73 semester hours of art education degree requirements, at least 12 of them in art history, 15 in professional education courses, and 27 in art education core classes, which include student teaching practicum. After completing two years of study with a grade point average of 3.0, these students may apply for upper-division status in Cliffe College to begin their professional education courses. (Other requirements for admission are listed under the Cliffe College webpage.) No minor is required for the special certificate.

To transfer into a studio art or art education degree program, a minimum GPA of 2.5 is required. Studio art credit for transfer students is awarded based on a combination of portfolio work and prior college credit. Except for state-mandated transfer courses, transfer credit is not awarded solely on a listing of courses on a transcript. Transfer students should make an appointment to show their portfolios. For more information regarding transferring into the Art Program, visit Transfers (http://art.ysu.edu/transfers/).

**Facilities**

The state-of-the-art facilities include over 70,000 square feet of dedicated studio and exhibition space for students to develop their craft. The clean and well-equipped studio facilities offer a broad range of high-quality equipment that includes traditional to emerging technologies. Digital technology includes several digital labs with industry-standard Macintosh computers utilizing software (Adobe Creative Suite, Rhinoceros 3D, open-source creative coding platforms) and hardware (3D digital printers, laser cutters, CNC mills, large format photographic printers, and scanners). Traditional facilities and equipment include a foundry for metal casting, a welding fabrication area, a woodshop, a range of printing presses, photo/digital-based printmaking equipment, ceramic potter's wheels, kilns, an analog darkroom, medium and large format cameras, studio lighting, and portable backdrops.

The McDonough Museum of Art (https://ysu.edu/mcdonough-museum/) is directly adjacent to Bliss Hall on the YSU campus. The Beecher Center (http://cac.ysu.edu/beecher/), a joint-use space for the University, and the Butler Institute of American Art (https://butlerart.com/) are located just across Wick Avenue from Bliss Hall.

**Student Activities**

Art students may participate in all Youngstown State University student activities. Of special interest to art students are student organizations and activities such as:

- Empty Bowls Fundraiser
- F(10) Photography Club
- Red Press Collaborative
- Student Art Association
- Study Abroad Trip to Glasgow, Scotland

**Academic Advising**

The Cliffe College Academic Advisement Office strives to provide optimum assistance to our students to help them achieve academic and future career success. Our services include individual academic advisement sessions, updated curriculum guides, updated admissions, and transfer requirements, ongoing graduation guidance, career development, and more. Our goal is to see you succeed in your academic and career endeavors! The Academic Advisor for Art students may be reached at 330-941-3623.

**Accreditation**

The Art Program is accredited by the National Association of Schools of Art and Design (NASAD [https://nasad.arts-accredit.org/]) and the Council for the Accreditation of Educator Preparation (CAEP [http://caepnet.org/]) through meeting the rigorous standards set by each organization. YSU is one of 363 accredited conservatories, colleges, and universities recognized by NASAD. The Department of Art was reviewed by NASAD in 2016, and the next campus visit is scheduled for 2026. For more information regarding NASAD accreditation, visit NASAD (https://nasad.arts-accredit.org/).

**Art Career Possibilities**

Advertising Consultant or Designer • Advertising Illustrator • Animator • Apparel Graphic Designer • Architectural Blacksmith • Architectural Illustrator • Architectural Photographer • Art Advisor • Art Appraiser • Art Buyer • Art Consultant • Art Critic • Art Director • Art Educator • Art Fabricator • Art Historian • Art Journalist • Art Publicist • Art Therapist • Author • Backdrop Designer • Billboard Artist • Brand Manager • CAD Designer • Caricaturist • Cartoonist • Ceramic Artist • Ceramic Designer • Commercial Artist • Commercial Photographer • Community Activist • Community Artist • Community Arts Instructor • Concept Illustrator • Conservator • Corporate/Public Relations Photographer • Digital Consultant • Digital Fabrication • Digital/New Media Artist • Ceramic Mold Maker • Ceramic Production Designer • Creative Director • Curator • Design Consultant • Digital Designer • Display Designer Commercial • Display Designer Retail • Documentarian • Draftsman • Editor • Editorial/Illustration Photographer • Environmental Graphic Designer • Exhibit Preparator • Fashion Illustrator • Fashion Photographer • Fiber Artist • Fine Art Photographer • Gallery Director/Owner • Graphic Designer • Graphic Novelist • Illustrator • Image Processor • Information Architect • Interactive Media Designer • Installation Artist • Jewelry Designer • Letterpress Printer • Magazine Designer • Marketing Strategist • Master Printer • Medical Illustrator • Metalsmith • Metals Artist • Muralist • Museum Curator • Art/Children's Museum Educator • Museum Registrar • Museum Staff • Newspaper Graphic Artist • Painter • Performance Artist • Photographer • Photo Editor • Photo Journalist • Photo Re-toucher • Police Sketch Artist • Portrait Photographer • Printmaker • Product/Food Photographer • Production Designer • Prop Fabricator • Professor • Public
History
The Art Program at Youngstown State University began in 1935 as an initiative of Howard Jones, the first president of the University. He supported the concept that aesthetics and art play a major role in the development of the individual in society. Howard Jones appointed Margaret Evans, former director and curator of the Butler Institute of American Art (https://butlerart.com/), to teach and direct the development of art courses in the curriculum. Evans began to establish a curriculum leading to a career in art education in elementary and secondary schools. During this period of development, art classes were held at the Butler Institute of American Art, the Mill Creek Park (https://www.millcreekmetroparks.org/) art museum, and various locations on the campus, ranging from private mansions along Wick Avenue to the World War II army barracks built on the campus.

Since 1935, the department has grown to over 20 faculty members who teach more than 200 art majors studying drawing, painting, printmaking, photography, ceramics, sculpture, digital media, graphic design, interdisciplinary studio, art history, and art education.

Chair
Stephanie Smith, Ph.D., Professor, Chair

Professor
Samuel Adu-Poku, Ph.D., Professor
Joy Christiansen Erb, M.F.A., Professor
Dragana Crnjak, M.F.A., Professor
Joseph D’Uva, M.F.A., Professor
Johnathan Farris, Ph.D., Assistant Professor
Missy McCormick, M.F.A., Associate Professor
Michelle Nelson, M.F.A., Professor
Jonathan Dana Sperry, M.F.A., Professor

Majors
• Bachelor of Science in Education Visual Arts Pre-K to 12 (p. 281)
  • Bachelor of Fine Arts
    • Studio Art Digital Media/Photography Emphasis (p. 275)
    • Studio Art Graphic + Interactive Design Emphasis (p. 277)
    • Studio Art Interdisciplinary Studio Arts Emphasis (p. 279)

Minors
• Art History Minor For Non-Art Majors (p. 275)
• 3 Dimensional Studies Minor For Non-Art Majors (p. 274)
• 3 Dimensional Studies Minor For Art Majors (p. 274)
• Digital Media Minor For Non-Art Majors (p. 284)
• Digital Media Minor For Studio Art Majors (p. 284)
• Graphic Design Minor For Non-Art Majors (p. 284)
• Graphic Design Minor For Studio Art Majors (p. 285)
• Interactive Design Minor For Studio Art Majors (p. 285)
• Interactive Design Minor For Non-Art Majors (p. 285)
• Interdisciplinary Art Minor For Studio Art Majors (p. 285)
• Interdisciplinary Art Minor for Non-Art Majors (p. 285)
• Painting Minor For Studio Art Majors (p. 286)
• Painting Minor For Non-Art Majors (p. 285)
• Photography Minor For Non-Art Majors (p. 286)
• Photography Minor For Studio Art Majors (https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/department-art/photography-minor-art-majors/)
• Printmaking Minor For Studio Art Majors (p. 286)
• Printmaking Minor For Non-Art Majors (p. 286)

ART 1501  Fundamentals of 2D Design  3 s.h.
The fundamental ideas and principles of 2-dimensional form. Emphasis on basic design concepts, pictorial composition, color theory, vocabulary, media and processes. Slide lectures, directed readings and studio problems.

ART 1502  Fundamentals of 3D Design  3 s.h.
Investigation of the interactions between line, plane, mass, and space. Emphasis on basic 3D concepts, color theory, vocabulary, media and techniques. Slide lectures, directed readings, writings and studio problems.
Prereq.:  ART 1501.

ART 1503  Foundation Portfolio Review  1 s.h.
A mandatory review of work completed in the Freshman Foundation Studio courses for students seeking the BFA in Studio Art degree. Students must pass the review to continue in the program and prior to selecting a concentration.
Prereq.:  Art 1501, ART 1521 and enrollment in ART 1522 and ART 1502.

ART 1521  Foundation Drawing  3 s.h.
An introduction to basic drawing concepts, materials and methods. Emphasis on observational drawing. Concepts including the effective use of line, mass, volume, composition, space, and the formal principles of design.

ART 1522  Intermediate Drawing  3 s.h.
A continuation of ART 1521 with greater emphasis on process, technique, spatial organization, and the development of pictorial content. Various topics are explored including figure drawing and the use of color.
Prereq.:  ART 1501 and ART 1521.

ART 1540  Masterpieces of World Art  3 s.h.
An introduction to the ways that art communicates and how art interacts with our environment, our society, and our lives. Rather than a chronological study of the development of art, the course emphasizes the in-depth study of a number of works and issues, drawn from art from throughout the world, both past and present. Intended for non-art majors.
Gen Ed:  Arts and Humanities, International Perspectives, Social and Personal Awareness.

ART 1541  Survey of Art History 1  3 s.h.
A study of world art, focusing on the western European tradition. Covers the period from prehistoric times through 1500. Introduces key concepts, methods, and vocabulary for the study of art.
Gen Ed:  Arts and Humanities.

ART 1542  Survey of Art History 2  3 s.h.
A study of world art, focusing on the western European tradition. Covers the period from 1500 to the present. Introduces key concepts, methods, and vocabulary for the study of art.
Gen Ed:  Arts and Humanities, International Perspectives, Social and Personal Awareness.

ART 1543  Survey of Art History: Gods and Monsters—Religion, Myth, and the Supernatural  3 s.h.
This course covers the history of world art from the perspective of world religions, myths, and conceptions of the supernatural. This course introduces key concepts, methods, and vocabulary for the study of art, and treats a range of artistic media in their historical and cultural contexts.
Gen Ed:  Arts and Humanities, International Perspectives, Social and Personal Awareness.
ART 1544 Survey of Art History: Body, Gender, and Self 3 s.h.
This course covers the history of world art from the perspective of the human body, issues of gender, and conceptions of self. This course introduces key concepts, methods, and vocabulary for the study of art, and treats a range of artistic media in their historical and cultural contexts.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.

ART 1545 Survey of Art History: Politics, Cities, and Art for the Public 3 s.h.
This course covers the history of world art from the perspective of politics, urban and architectural hierarchies, public art, propaganda and/or protest. This course introduces key concepts, methods, and vocabulary for the study of art, and treats a range of artistic media in their historical and cultural contexts.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.

ART 1555 Introduction to Art Education 3 s.h.
The course provides a foundation to the histories, theories, and practices of art education in PK-12 schools, museums and community centers. Course content will include methods for developing art education curriculum, introduction to teaching strategies, fostering student engagement/classroom management, and developing assessments. Students will complete 15 preclinical hours in art educational sites working with cooperating professional educators to observe and teach. Students will practice methods of digital documentation and reflective practice.

ART 1591 Idea Development and Creativity in Cultural Context 3 s.h.
This course is centered on creative and equitable strategies in idea development and implementation applicable to innovative and collaborative problem solving in diverse fields and the ability to connect these strategies meaningfully to diverse audiences, specifically subcultures and minority groups within the United States.
Gen Ed: Domestic Diversity, Social and Personal Awareness.

ART 2611 Introduction to Sculpture 3 s.h.
An introductory course for those who have little or no experience with sculpture. Students explore basic sculptural concepts and theories using a variety of materials and methods. Directed readings, writings, technical workshops, and participation in course work exhibitions required.
Prereq.: ART 1503 and ART 1522.

ART 2615 Introduction to Metals 3 s.h.
Basic metals fabrication in the creation of jewelry and small metal objects. Design as applied to hand processes.
Prereq.: ART 1502, ART 1522.

ART 2621 Life Drawing 3 s.h.
Students develop sound composition based upon accuracy of observation of the human figure. Understanding of proportion and the detailed study of skeletal and muscular systems will be addressed.
Prereq.: ART 1502, ART 1522.

ART 2624 Printmaking for Non-Majors 3 s.h.
A survey of basic printmaking processes; including relief, intaglio, and mono-printing techniques. Emphasis on technical, formal, and conceptual exploration related to each technique.

ART 2625 Introduction to Printmaking: Intaglio and Relief 3 s.h.
An introduction to basic intaglio and relief printmaking processes, including etching, collagraph, lino-cut, woodcut, and multiple-block printing. Emphasis on technical, formal, and conceptual issues related to each technique.
Prereq.: ART 1503.

ART 2626 Introduction to Printmaking: Lithography and Screenprinting 3 s.h.
An introduction to basic lithography and screenprinting processes, including stone and plate lithography and photo-mechanical screen-printing. Emphasis on technical, formal, and conceptual issues related to each technique.
Prereq.: ART 1503.

ART 2631 Introduction to Ceramics 3 s.h.
A broad introduction to the basic ceramic building methods, a variety of surfacing techniques, glaze and the electric firing. Class projects will allow students to practice processes and building techniques while developing their personal aesthetic within the realm of ceramic art. One hour lecture and five hours lab.
Prereq.: ART 1503 or permission of instructor.

ART 2640 Ceramics for Non-Art Majors 3 s.h.
Introduction to the basic building and forming methods in clay, a variety of surfacing techniques, glaze and firing technology. Class projects will allow students to learn techniques and build skills while developing a personal aesthetic within the realm of ceramic art. One hour lecture and five hours lab.

ART 2641 Ceramics for Non-Majors- Wheel and Alternative Processes 3 s.h.
Introduction to the basic wheel throwing technology, mold making, and slip casting process. A variety of surfacing techniques, glaze and kiln firing will be covered. Class projects will allow students to practice techniques while developing their personal aesthetic within the realm of ceramic art.

ART 2648 Experience Art: Social and Behavioral Perspectives 3 s.h.
An introductory course incorporating art education research methods to investigate social and behavioral influences on visual art learning. Classic and contemporary studies of artistic development and aesthetic response will be introduced. Learning encounters with art from early childhood through late adulthood will be addressed. Intended for education majors.
Gen Ed: Arts and Humanities.

ART 2650 Introduction to Painting 3 s.h.
This course is designed to introduce students to the fundamentals of painting. Through a variety of hands-on painting processes, exercises in color theory, painting experiments and surface treatments, variety of painting techniques and expressive use of the materials, the course will focus on developing students understanding of painting as critically and visually engaging process. One hour lecture, 5 hours lab per week.
Prereq.: ART 1503 or permission of instructor.

ART 2653 Watercolor 3 s.h.
Opaque, transparent, and inventive procedures with watercolor. Emphasis is on expressive use of the medium and development of personal style.
Prereq.: ART 1503.

ART 2661 Print Design 1 3 s.h.
A basic understanding of the concepts of graphic design that include layout, typography, image-making, and theme. Students will create work from thumbnails through completed projects. One hour lecture and five hours lab.
Prereq.: ART 1503 or by permission of instructor.

ART 2670 Photography for Non-majors 3 s.h.
An introduction to fine art photography emphasizing visual literacy and technical skills for non-art majors. Course content focuses on digital camera operation, composition and design, lighting, ethics, basic computer editing, and outsourced printing. Student must provide camera.

ART 2674 Introduction to Photography 3 s.h.
Introduction to black and white digital photographic image capture emphasizing visual literacy, creative possibilities and critical awareness of the medium as an art form. Course content focuses on DSLR camera operation, composition and basic computer editing. A digital SLR camera is required.
Prereq.: ART 1503 or permission of instructor.

ART 2691 Introduction to Digital Media 3 s.h.
This course is designed to give students a technical and theoretical overview of digital media as a means of personal and cultural expression, strengthening visual literacy. Students will explore static and dynamic digital methods.
Prereq.: ART 1503 or permission of instructor.

ART 3703 Junior Portfolio Review 1 s.h.
A mandatory review of work within each studio concentration. Students must pass to continue in the program.
Prereq.: Junior standing.
ART 3712  Intermediate Sculpture  3 s.h.  
Examination of sculptural concepts through individual projects. Emphasis is on contemporary sculptural issues, techniques, and media. Directed readings, technical workshops and critiques required.  
Prereq.: ART 2611.  
ART 3713  Sculpture Studio  3 s.h.  
This course examines contemporary sculptural issues, techniques and media. Students explore alternative sculptural approaches. Individual student projects determined by faculty consultation and critiques. Directed readings, writings, group discussions. One hour lecture and five hours lab. May be repeated up to 12 semester hours.  
Prereq.: ART 2611 or permission of instructor.  
ART 3715  Intermediate Metals  3 s.h.  
This course examines the casting process used in creating jewelry and small metal objects. Emphasis will be on sound craftsmanship and successfully meeting the design challenges of the metals medium. Slide lecture, demonstrations, assigned readings and studio problems.  
Prereq.: ART 2615.  
ART 3721  Expressive Drawing  3 s.h.  
 Exploration of contemporary drawing practices with a focus on creative and alternative extensions to traditional image making. Emphasis placed on the development of perceptual, conceptual, and interpretive solutions to drawing problems and the relationship of technique, scale, media, format and materials. Articulation of personal content, research and revision is stressed.  
Prereq.: ART 1522.  
ART 3722  Interdisciplinary Art Practice  3 s.h.  
Investigation of experimental, collaborative and interdisciplinary art practice—extending outward to include a variety of creative fields; including technology. Projects challenge students to redefine traditional approaches to art making utilizing concepts, processes and performative actions inherent to drawing in a wide context of materiality, surface, space, site-specific, collaborative and ephemeral methodologies. May be repeated a total of two times for 6 semester hours.  
Prereq.: Two of the following ART 2625, ART 2626, ART 2611, ART 2674, ART 2691, ART 2669.  
ART 3723  Drawing Studio  3 s.h.  
Continued exploration of contemporary drawing practices with a focus on advancing creative and alternative extensions to traditional image making. Students develop personal, perceptual, conceptual, and interpretive solutions to a variety of drawing problems employing both traditional and unconventional processes and materials. Directed readings, research, writing, group discussions and critique. One hour lecture and five hours lab. May be repeated up to 12 semester hours.  
Prereq.: ART 1522.  
ART 3725  Intermediate Printmaking  3 s.h.  
Further exploration of intaglio, relief, lithography and screenprinting processes, including digital and photo-mechanical processes. Emphasis on refining technique, experimentation, and further development of concept through the study of historical and contemporary printmaking artists.  
Prereq.: ART 2625 or ART 2626.  
ART 3732  Intermediate Ceramics  3 s.h.  
Continuation of handbuilding methods; introduction to wheel-thrown ceramics.  
Prereq.: ART 2631.  
ART 3733  Ceramics Studio  3 s.h.  
Explore alternative ceramic processes, midrange clay, glaze and firing technology while strengthening craft, technical, and conceptual skills. A variety of techniques, applications, technology, and the use of various interdisciplinary tools and methodologies will be covered. Class projects will allow students to build skill while developing a personal aesthetic within the realm of ceramic art. One hour lecture and five hours lab. May be repeated up to 12 semester hours.  
Prereq.: ART 2631 or by permission of instructor.  
ART 3737  Pre-K-4, Visual Arts Education  3 s.h.  
Cognitive and interdisciplinary arts activities for multiple age levels to meet the developmental needs of learners at diverse ages. Curriculum development, long- and short-range planning, motivational procedures, assessment processes, field-based activities.  
Prereq.: Junior standing (63 s.h.).  
ART 3741  Topics in Medieval Art  3 s.h.  
Topics in European Art from the beginnings of Christianity through the Gothic period (500 and 1500 A.D.). Specific content varies by semester and may include a general survey of Medieval art, or in-depth topics such as Early Christian and Byzantine art or Medieval sculpture. May be taken twice for credit if content differs.  
Prereq.: ART 1541 or consent of instructor.  
ART 3742  Topics in Renaissance Art  3 s.h.  
The art and architecture of Europe during the 15th and 16th centuries. Examines the work of Michelangelo, Leonardo da Vinci, Durer, and others. Topics vary by semester and include the Renaissance in Italy and the Renaissance in Northern Europe. May be repeated if the content is different.  
Prereq.: ART 1542 or consent of instructor.  
ART 3743  Baroque and Rococo Art  3 s.h.  
Art and architecture of the 17th and early 18th centuries, an era of world exploration and scientific investigation. The works of such artists as Bemini, Velazquez, and Rembrandt are included.  
Prereq.: ART 1542 or consent of instructor.  
ART 3744  Seventeenth and Eighteenth Century American Art  3 s.h.  
Covering all aspects and media of painting, sculpture, architecture, and the decorative arts of 17th and 18th centuries.  
Prereq.: ART 1542 or consent of instructor.  
ART 3745  Nineteenth Century European Art  3 s.h.  
European painting and sculpture of Neo-classicism, Romanticism, and Realism. Include Impressionism and related movements. Art as part of social and political developments, and the foundations of modern formalism.  
Prereq.: ART 1542 or consent of instructor.  
ART 3746  Nineteenth Century American Art  3 s.h.  
Covering all aspects and media of painting, sculpture, architecture and the decorative arts of the 19th century.  
Prereq.: ART 1542 or consent of instructor.  
ART 3747  African-American Art  3 s.h.  
A survey of Black American art history from the 17th century through the 20th century.  
Prereq.: AFST 2601 or ART 1541 or ART 1542, or consent of instructor.  
ART 3748  Special Topics in Studio Art  3 s.h.  
Study in one of the many areas of the visual process that focuses on specific content or technical methods.  
Prereq.: ART 1503 or consent of instructor.  
ART 3752  Intermediate Painting  3 s.h.  
An understanding of painting processes in relation to both historical and contemporary painting practices. Students will be introduced to a variety of materials, processes and techniques for a diverse investigation of painting practice with concentration on individual content, direction, style, and personal expression.  
Prereq.: ART 2650.  
ART 3757  Art Education for Diverse Populations  3 s.h.  
Students will explore issues of cultural diversity, individuals with exceptionalities and gifted learners, gender differences, and differences in socioeconomic backgrounds, and how these affect student learning and behavior in the classroom. Students will be challenged to apply their understanding of the needs of all learners and knowledge of the richness of contributions from diverse populations, to develop inclusive and pluralistic curricular in art education.  
Prereq.: ART 1555 or permission of instructor.
ART 3759  Interactive Design 1  3 s.h.
An investigation of the aesthetic and practical processes, philosophies, and history behind the field of interactive design for on screen applications. Students employ various hardware/software tools available to designers for visual interactive design. One hour lecture and five hours lab.
Prereq.: ART 2661 or permission of instructor.

ART 3760  Typography 1  3 s.h.
An investigation of typographic design within a system over a variety of formats with a focus on a technical understanding of the principles of typography, including classification, legibility, readability, use of a grid, alignment, mood, audience and visual hierarchy as well as an understanding of typography as an art form. One hour lecture and five hours lab.
Prereq.: ART 2661 or permission of instructor.

ART 3761  Print Design 2  3 s.h.
The interaction of type and images in visual communication. Students will be introduced to typographic grid as an organizing principle as well as the relationship of form to content. One hour lecture and five hours lab.
Prereq.: ART 3760 or permission of instructor.

ART 3762  Typography 2  3 s.h.
The development of sensitivity for specific typefaces and their effective use in communications. Emphasis will be directed toward the expressive use of type in interpretive, symbolic, and metaphoric solutions. One hour lecture and five hours lab.
Prereq.: ART 3703 or by the permission of instructor.

ART 3763  Illustration 3 s.h.
Visual expression through various media, both electronic and traditional. Emphasis is on problem-solving through the exploration of technique, creative process and the development of personal styles.
Prereq.: ART 1503.

ART 3764  Typeface Design 3 s.h.
An investigation of typeface design. Students will engage in developing one or more unique typefaces, and the promotional materials used to market them. Students will engage in research related to the history of type design, and current type trends and cultural inspirations.
Prereq.: ART 2661 or by the permission of instructor.

ART 3765  Motion Design 3 s.h.
Students will engage current technologies to create dynamic motion for screen-based design. One hour lecture and five hours lab.
Prereq.: ART 3703 or permission by instructor.

ART 3768  Pre-Press Production 3 s.h.
Introduction to the technical requirements of preparing a design for production including the importance of understanding pre-press software, printing technology and printing specifications.
Prereq.: ART 2661.

ART 3769  Interactive Design 2  3 s.h.
A further investigation of interactivity/screen design. Students will encounter projects ranging from web design to interactive screen-based publications. One hour lecture and five hours lab.
Prereq.: ART 3759 or permission of instructor.

ART 3771  Analog Photography Studio  3 s.h.
This course focuses on photographic analog printing emphasizing photography as an expressive art form. Course content focuses on lighting, film development and black and white enlargement and printing. Directed readings and group discussion. One hour lecture and five hours lab. May be repeated up to 12 semester hours.
Prereq.: Art 2674 or permission of instructor.

ART 3772  Digital Photography 1  3 s.h.
Introduction to color digital still photography utilizing the computer as a fine art tool. Course content focuses on retouching, image manipulation, color management and high quality printing.
Prereq.: ART 2671 or ART 2674.

ART 3773  Digital Photography Studio  3 s.h.
This course continues the examination of contemporary digital photography issues, techniques, media, and concept. Students explore digital photography in terms of advanced image manipulation, lighting technique, various camera formats, and large-scale printing. Directed readings, writings, and group discussions. One hour lecture and five hours lab. May be repeated up to 12 semester hours.
Prereq.: ART 2674 or permission of the instructor.

ART 3780  African Art  3 s.h.
Study of African tribal art forms and their relationship to the historical period in which they were created. The impact and influence of African art on the development of contemporary Western art trends.
Prereq.: AFST 2601 or ART 1541 or ART 1542, or consent of instructor.

ART 3781  Native North American Art  3 s.h.
The art and architecture of the native peoples of North America. Includes archeological sites and living artistic traditions, stressing the relationship between art and society.
Prereq.: ART 1542, a course in cultural anthropology, or consent of instructor.

ART 3782  Topics in Pre-Columbian Art  3 s.h.
The art and architecture of the ancient peoples of Mexico, Central and South America. Topics vary by semester, and include Mesoamerica (Mexico and northern Central America) and the Andes (Peru and Bolivia). May be taken twice if the content is different.
Prereq.: ART 1541, a course in cultural anthropology, or consent of instructor.

ART 3783  History and Theory of Graphic Design  3 s.h.
A chronological survey of graphic design from ancient to modern times. An emphasis on critical visual theory, specific designers who influenced the field as well as the relationship between visual communication and historical/cultural events.
Prereq.: ART 1542 or permission by instructor.

ART 3784  Art of China  3 s.h.
The art of China from prehistory to the present day. Media including ceramics, stone carving, bronzes lacquer, wood, architecture, painting, and new media will be placed in cultural, religious, political and social contexts.
Prereq.: ENGL 1550 or permission of instructor.

ART 3785  Art of Japan  3 s.h.
Japanese art from prehistory to the present including ceramics, bronzes, lacquer, wood, architecture, painting, photography and new media. Emphasis will be placed on putting works into cultural, religious, political, and social context.
Prereq.: ENGL 1550 or permission of instructor.

ART 3788  Theory of Art  3 s.h.
The theories and philosophical implications of form in the visual arts, with emphasis on contemporary thought.
Prereq.: ART 1541, ART 1542, and junior standing.

ART 3789  Arts of South and Southeast Asia  3 s.h.
Arts of greater India and both maritime and mainland Southeast Asia from prehistoric to contemporary, including ceramics, stone carving, architecture, painting, and photography in their cultural, religious, political and social context.
Prereq.: ENGL 1550 or Permission of Instructor.

ART 3792  Video and Animation Studio  3 s.h.
An introduction and/or continued development of the student's ability to use both digital video and animation as an expressive form of communication ranging from narrative to non-narrative structures. Students will gain technical knowledge by working individually and in small teams. One hour lecture and five hours lab. May be taken up to 6 semester hours.
Prereq.: ART 2691 or permission of instructor.

ART 3794  Introduction to Motion Studies  3 s.h.
An introductory study of time-based motion graphics including traditional and two-dimension (2D) computer animation. Principles and techniques of motion graphics from storyboarding to digital composition. Discussion of exemplary works, historical background, and technological trends in motion graphics.
Prereq.: ART 2691.
ART 3795  Advanced Digital Audio/Video Production  3 s.h.
A project-oriented advanced study in digital audio/video production. A forum for further study of methods, procedures, and results attainable with video editing software, advanced editing techniques, digital compositing, and titling software.
Prereq.: ART 3792 or permission of instructor.

ART 3796  Ideation  3 s.h.
This course focuses on learning about and practicing creative strategies that improve communication of content and ideas. While emphasis will be on strategies related to digital culture, outcomes can be in digital or non-digital mediums. This course is studio based with additional emphasis on reading, writing and discussion of related topics.
Prereq.: ART 2691.

ART 3797  Interactive Art Studio  3 s.h.
An introduction and/or continued development of creative coding and interactive digital skills within art context emphasizing the development of a creative and critical artistic practice while covering practical technical skills. One hour lecture and five hours lab. May be taken up to 6 semester hours.
Prereq.: ART 2691 or permission of instructor.

ART 4800  Studio Problems  1-3 s.h.
Advanced, independent study in any two- or three-dimensional studio discipline. May be repeated for a maximum of 9 s.h.
Prereq.: Senior standing and/or permission of instructor.

ART 4801  Interdisciplinary Studies in the Visual Arts  1-4 s.h.
Interdisciplinary courses developing areas of self-interest using the most suitable range of visual strategies, media and methods of artistic production. Students select faculty from different visual disciplines to form team of two mentors. Directed readings, structured research initiatives and individual projects. Experience in selected disciplines required.
Prereq.: ART 3703.

ART 4802  Senior Project  3 s.h.
A studio concentration intended as preparation and production of work for the Senior Show graduation requirement.
Prereq.: Senior status and permission of instructor.

ART 4803  Senior Seminar  3 s.h.
Capstone course for studio majors integrating writing, oral, and critical reasoning skills specific to the student’s discipline within the larger framework of the visual arts.
Prereq.: Senior standing in Art.
Gen Ed: Capstone.

ART 4805  Urban Internship in Art  3 s.h.
This internship opportunity is open to any qualified studio art, art history or art education students. Interns work in galleries, art centers or an approved community art entity. Competitive and based on GPA, interview and portfolio. May be repeated in different locations up to three times.
Prereq.: Senior standing.

ART 4824  Printmaking Studio  3 s.h.
Intermediate through advanced study within printmaking to include technical and conceptual research, refinement of technique utilizing a variety of processes, and the development of personal imagery through a portfolio of work. Emphasis on invention, experimentation, and concept development. One hour lecture/five hours lab. Repeatable to 12 credit hours.
Prereq.: ART 2625 or ART 2626.

ART 4834  Advanced 3D Studies  3 s.h.
Advanced students work on individual projects determined through discussions with and critiques by faculty. Emphasis is on personal aesthetic development, mainstream art issues, interdisciplinary approaches, and refinement of technical skills. Directed readings, writings, group discussions.
Prereq.: ART 3713 and ART 3733, or permission of instructor.

ART 4837  Professional Practices in Middle School  3 s.h.
An exploration of middle school multiarts teaching strategies including observation, presentation, assessment and lesson planning. Direct observation included.
Prereq.: ART 3737.

ART 4838  Professional Practices in Secondary School  3 s.h.
An exploration of secondary school multiarts teaching strategies including observation, presentation, assessment and lesson planning. Direct observation included.
Prereq.: ART 3737.

ART 4839  Seminar in Art Education  3 s.h.
Discussions of emerging critical issues and topics of interest in art education including problems of the prospective teacher involving plant facilities, budget and supplies, professional dispositions, ethics, and state mandated licensure exams. Candidates' plan and display student works on campus. As a culminating experience, the teacher candidate will assemble and present a comprehensive professional portfolio in preparation for a job search and/or graduate school. Prereq. or.
Prereq.: ART 3737.
Coresq.: ART 4837 or ART 4838.

ART 4844  Supervised Student Teaching: Art (K-12)  10 s.h.
Sixteen weeks supervised student teaching experience in visual arts education. Prereq. Passing scores on OAE exams, BCI/FBI background check, TELS Upper Division Status.
Coresq.: ART 4842A, ART 4839.

ART 4851  Painting Studio  3 s.h.
Painting Studio course will expand student's knowledge and practice of painting processes beyond introductory assignments, and in relation to both historical and contemporary painting practices. Use of variety of materials, mixed media painting processes as well as a range of technical and conceptual strategies, the course will provide avenues for divers investigation of painting practice and a solid foundation for personal expression. Students focus on critical thinking, research and enhancement of individual painting methodologies. Introduction to professional development strategies including proposals writing, exhibiting and promoting artwork. One hour lecture and five hours lab. May be repeated up to 12 semester hours.
Prereq.: ART 2650 or permission of instructor.

ART 4861  Publication Design  3 s.h.
The use of type and visual elements in publication formats including newspaper design, newsletters, magazines, annual reports, book design and specialty publications.
Prereq.: ART 3703 and ART 3761.

ART 4863  Logo + Branding Design  3 s.h.
The development of logos and their applications within an identity system. How corporate signatures are the fulcrum of an identity program and how its systemic usage impacts on the corporate image. One hour lecture and five hours lab.
Prereq.: ART 3703 or by the permission of instructor.

ART 4864  Package Design  3 s.h.
The application of graphic design concepts to three-dimensional problems in the creation of packaging design. Students will consider form, visual impact, and environmental concerns related to the creation of packaging.
Prereq.: ART 3703 and ART 3761 or by the permission of instructor.

ART 4865  Advertising Graphics  3 s.h.
The use of graphic elements in conjunction with type to produce advertisements for many different venues.
Prereq.: ART 3761 or permission of instructor.

ART 4867  Graphic Design Internship  3 s.h.
An application of graphic design theory and practices within a professional work experience. Students are selected on the basis of preparation, portfolio, GPA, and competitive interview. Enrollment is contingent upon the availability of internship positions.
Prereq.: ART 3703 and ART 3761.

ART 4868  Graphic Design Practicum  3 s.h.
Students will work with faculty members, and a real world client to produce promotional materials from concept to print. This course will offer a full service design firm-to-client experience that will allow the student to engage in all levels of the creative/production process.
Prereq.: Permission of instructor.
ART 4869  Interactive Design Studio  3 s.h.
Continued investigation of interactivity/screen design. Students will engage in developing a more specific and individualized body of work in the area of web design or interactive screen-based publications. One hour lecture and 5 hours lab. May be repeated up to 6 semester hours.
Prereq.: ART 3759 or permission by instructor.

ART 4871  Analog Photography 2  3 s.h.
An exploration of concepts and techniques in traditional analog fine art photography. Course content includes medium and large format films, advanced black and white printing and lighting techniques.
Prereq.: ART 2676 or ART 3771, or ART 2672 and ART 2673.

ART 4872  Digital Photography 2  3 s.h.
An exploration of concepts and techniques in digital fine art photography. Course content focuses on advanced image manipulation, lighting skills, large-scale printing and conceptual development.
Prereq.: ART 2675 or ART 3772, or ART 2672 and ART 2673.

ART 4873  Advanced Photography  3 s.h.
Advanced study of fine art photography exploring conceptual development and creative expression through individual projects. Course content focuses on project development, refinement of technical skills, reading and writing assignments. May be repeated a total of three times.
Prereq.: Passing of ART 3703 or permission of instructor.

ART 4874  Photography Internship  3 s.h.
Application of photographic knowledge and skills in the professional work environment. Admission based on preparation, portfolio, GPA, competitive interview, and the availability of internship locations.
Prereq.: ART 3776.

ART 4880  Special Topics in Art History  3 s.h.
Study in one of the many areas of art history. May be taken for up to three times for credit if the topic is not repeated.
Prereq.: ART 1541, ART 1542, or consent of instructor.

ART 4884  Museum Internship  3 s.h.
Practical experience in the museum working with the professional staff of The Butler Institute of American Art and/or other museums of the region. Students observe and assist in virtually every phase of museum operations from care of the collections through exhibition design and implementation. May be repeated up to three times.
Prereq.: ART 4883.

ART 4889  Seminar in Art History  3 s.h.
A seminar on problems in art history. Topics will be drawn from all periods and media. May be repeated with different topics up to 9 s.h.
Prereq.: Senior standing, 6 s.h. of art history, or consent of instructor.
Gen Ed: Capstone.

ART 4891  Multimedia Design  3 s.h.
Exploration of non-linear digital presentation involving compilation of still and moving images, live video, text, and sound. An overview of multimedia in the fields of web design, interactive programming and onscreen visual communication.
Prereq.: ART 2691.

ART 4893  Advanced Digital Media Studio  3 s.h.
Advanced students work on individual projects in guidance with faculty through directed readings, writings, group discussions and critiques. While refinement of technical skills is essential, emphasis is placed on experimentation, critical thinking and manipulation of the aesthetic experience. (May be repeated up to 12 s.h.).
Prereq.: ART 3792, or ART 3796, or ART 3797 or permission of instructor.

ART 4894  Topics in Digital Imaging  3 s.h.
This advanced level course provides an opportunity for the student to focus on one of the following areas of digital imaging: 2D imaging, 3D modeling, animation, video, or multimedia design. The student completes an independent project, meeting with the instructor on a weekly basis.
Prereq.: ART 2691.

ART 4896  Art and Technology Internship  3 s.h.
An application of theories and practices in the field of art and technology within a professional work environment. Admission is based on preparation, portfolio, GPA, competitive interview, and the availability of internship location.
Prereq.: ART 2601.

ART 5840  Topics in Ancient Art  3 s.h.
The art and architecture of the ancient cultures of the Mediterranean region and the Near East. Topics vary by semester, and include Egypt, the Ancient Near East, Greece, and Rome. May be taken twice if content is different.
Prereq.: Junior standing.

ART 5881  Twentieth Century Art to 1960  3 s.h.
A survey of the visual arts history of the 20th century beginning with its 19th century roots. The influential artists, movements, and motivating theories will be covered against a backdrop of world events. Primary emphasis is placed upon French Impressionism, German Expressionism, Fauvism, Surrealism, and American Abstract Expressionism.
Prereq.: ART 1542 or permission of instructor.

ART 5882  Twentieth Century Art from 1960  3 s.h.
A survey of the visual arts history of the late 20th century beginning with those ideas and trends which followed Abstract Expressionism. Beginning with the late 1950s every principle artistic movement from Pop through post-Modernism will be explored against a backdrop of Post-War world events.
Prereq.: ART 1542 or permission of instructor.

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Minor in 3-Dimensional Studies for Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ART 3712</td>
<td>Intermediate Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 3713</td>
<td>Sculpture Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 3732</td>
<td>Intermediate Ceramics</td>
<td>3</td>
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<tr>
<td>ART 3733</td>
<td>Ceramics Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 2615</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 4834</td>
<td>Advanced 3D Studies</td>
<td>3</td>
</tr>
<tr>
<td>ART 4800</td>
<td>Studio Problems</td>
<td>3</td>
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</table>

Total Semester Hours 18

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Minor in 3-Dimensional Studies for Non-Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1502</td>
<td>Fundamentals of 3D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2611</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 2631</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>ART 3712</td>
<td>Intermediate Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 3713</td>
<td>Sculpture Studio</td>
<td>3</td>
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<tr>
<td>ART 3732</td>
<td>Intermediate Ceramics</td>
<td>3</td>
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<tr>
<td>ART 3733</td>
<td>Ceramics Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 4834</td>
<td>Advanced 3D Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three from the following:

Total Semester Hours 18

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Minor in Art History for Non-Art Majors

COURSE | TITLE | S.H. | 12
Select two (2) of the following classes in the 1540s and two (2) of the following classes at 3700 level and above.
ART 1541 | Survey of Art History 1 | 3.0
ART 1542 | Survey of Art History 2 | 3.0
ART 1543 | Survey of Art History: Gods and Monsters--Religion, Myth, and the Supernatural | 3.0
ART 1544 | Survey of Art History: Body, Gender, and Self | 3.0
ART 1545 | Survey of Art History: Politics, Cities, and Art for the Public | 3.0

ART 3741 | Topics in Medieval Art | 3.0
ART 3742 | Topics in Renaissance Art | 3.0
ART 3743 | Baroque and Rococo Art | 3.0
ART 3745 | Nineteenth Century European Art | 3.0
ART 3782 | Topics in Pre-Columbian Art | 3.0
ART 3784 | Art of China | 3.0
ART 3785 | Art of Japan | 3.0
ART 3789 | Arts of South and Southeast Asia | 3.0
ART 4880 | Special Topics in Art History | 3.0
ART 4889 | Seminar in Art History | 3.0
ART 5840 | Topics in Ancient Art | 3.0
ART 5881 | Twentieth Century Art to 1960 | 3.0
ART 5882 | Twentieth Century Art from 1960 | 3.0

Bachelor of Fine Arts in Studio Arts
Digital Media/Photography Track

Digital Media/Photography Faculty
Dana Sperry (http://art.ysu.edu/dana-sperry/)
Professor
Office: Bliss 4081
Phone: 330.941.3627
E-mail: jdsperry@ysu.edu

Digital Media

The Department of Visual and Dramatic Art’s Digital Media program teaches students to use the creative tools of tomorrow. In Digital Media, students will explore the ways in which new technologies are engines of personal exploration and cultural production. They will experiment with new ways of expressing themselves through video, interactive media, and digital fabrication and will discover that technology is a tool for creative experimentation, an instrument for the artistic manipulation of data, and the creation of dynamic user experience and interaction. The skills students acquire in Digital Media will prepare them for careers in a variety of cultural industries.

Potential areas of exploration in YSU’s Digital Media program include:

- Video
- Digital and Analog Photography
- Web-based Art
- Mechatronics and Physical Computing
- Creative Coding

The department offers classrooms and workspace in Bliss Hall, the Butler Institute of American Art, and the McDonough Museum. Our computer labs feature Mac workstations with the full Adobe Creative Cloud including Photoshop, After Effects, and Premiere, as well as Rhinoceros 3D, and open-source creative software such as Processing and Arduino. Our fabrication labs feature digital tools including 3D printers, CNC routers, and laser cutters.

Photography

Students in the Photography Program at YSU study photographic processes in both traditional and digital technologies within the context of a fine arts program. They move seamlessly between the darkroom and the digital facilities while exploring historic and contemporary issues within lens-based media. The Photography Program places equal emphasis on the science and craft of photography and on critical thinking and conceptual development. In all coursework, including introductory through advanced level classes, the photography faculty present a variety of concepts and applications related to lens-based media.

Contact Information for Department of Art

To learn more about the degree programs, scholarships, exhibitions, faculty, and students, visit art.ysu.edu (http://artdept.ysu.edu/) or contact the Department of Art directly at 330-941-3627. To schedule a personalized campus visit, contact the Cliffe College Coordinator of Admissions and Recruitment at 330-941-2346.

Email: Connect Form (https://ysu.elluciancrmrecruit.com/ApplyYSUUndergraduate/Account/Create?CF=d3ab7617-07fc-4187-ab77-7b44a0242a56&o=5a8ed8fd-7139-4b3e-b9a5-0182f74cb2a8&=40fe6c5-fed1-e311-942a-0002c9106165&IsInquiry=True)

COURSE | TITLE | S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 1-2
or HONR 1500 | Intro to Honors | 1-2

GENERAL EDUCATION REQUIREMENTS
ENGL 1550 | Writing 1 | 3-4
or ENGL 1549 | Writing 1 with Support | 3-4
ENGL 1551 | Writing 2 | 3
CMST 1545 | Communication Foundations | 3
Mathematics Requirement | 3
Arts and Humanities (2 courses) *Included in Major | 3
Natural Sciences (2 courses, 1 with lab) | 3
Social Science (2 courses) | 3
Social and Personal Awareness (2 courses) | 3

MAJOR REQUIREMENTS
Foundation Courses
ART 1501 | Fundamentals of 2D Design | 3
ART 1502 | Fundamentals of 3D Design | 3
ART 1521 | Foundation Drawing | 3
ART 1522 | Intermediate Drawing | 3
ART 1503 | Foundation Portfolio Review | 3

Breadth Courses
ART 2611 | Introduction to Sculpture | 3
ART 2625 | Introduction to Printmaking: Intaglio and Relief | 3
or ART 2626 | Introduction to Printmaking: Lithography and Screenprinting | 3
ART 2631 | Introduction to Ceramics | 3
ART 2650 | Introduction to Painting | 3
ART 2661 | Print Design 1 | 3

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### Bachelor of Fine Arts in Studio Arts Digital Media/Photography Track

<table>
<thead>
<tr>
<th>Concentration Courses Digital Media/Photography</th>
<th>Year 1</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3703 Junior Portfolio Review</td>
<td>Fall</td>
<td>1-2</td>
</tr>
<tr>
<td>ART 4802 Senior Project</td>
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<tr>
<td>ART 4803 Senior Seminar</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>120-122</strong></td>
<td><strong>16</strong></td>
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<tr>
<td><strong>Digital Media Emphasis</strong></td>
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<tr>
<td>ART 2691 Introduction to Digital Media</td>
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<tr>
<td>ART 2674 Introduction to Photography</td>
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<tr>
<td>ART 3792 Video and Animation Studio</td>
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<tr>
<td>ART 3797 Interactive Art Studio</td>
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<tr>
<td>ART 4893 Advanced Digital Media Studio 1</td>
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<tr>
<td>ART 4893 Advanced Digital Media Studio 1</td>
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<tr>
<td><strong>Digital Studio Art Electives (6 s.h.)</strong></td>
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<tr>
<td>Choose two additional 3700 level or higher Digital Studio Art electives from the following courses:</td>
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<tr>
<td>ART 3748B, ART 3748T, ART 3759, ART 3760, ART 3762, ART 3765,</td>
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<tr>
<td>ART 3769, ART 3771, ART 3772, ART 3773, ART 3796, ART 4869,</td>
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<tr>
<td>ART 4872, ART 4873, ART 4874, ART 4893, ART 4894, ART 4896</td>
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<tr>
<td>*ART 3771, ART 3773, ART 4893 may be taken up to 12 s.h. per course</td>
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<tr>
<td><strong>Photography Emphasis</strong></td>
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<tr>
<td>ART 2674 Introduction to Photography</td>
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<tr>
<td>ART 2691 Introduction to Digital Media</td>
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<tr>
<td>ART 3771 Analog Photography Studio (may be taken up to 12 s.h.)</td>
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<tr>
<td>ART 3773 Digital Photography Studio (may be taken up to 12 s.h.)</td>
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<tr>
<td>ART 3773 Digital Photography Studio (may be taken up to 12 s.h.)</td>
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<tr>
<td><strong>Photography Electives (select 15 s.h.)</strong></td>
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<td>Choose five additional 3700 level or higher Photography Studio Art electives from the following courses:</td>
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<td>ART 3748, ART 3771, ART 3773, ART 3792, ART 3797, ART 4871, ART 4872, ART 4873</td>
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<td>*ART 3771, ART 3773, ART 3792, ART 3797 may be taken up to 12 s.h. per course</td>
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<tr>
<td><strong>Studio Art Electives (both areas of emphasis select 6 s.h.)</strong></td>
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<td>Choose two additional 3700 level or higher Studio Art electives from the following courses:</td>
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<td>ART 3712, 3713, 3715, 3721, 3722, 3723, 3725, 3732, 3733, 3737, 3748,</td>
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<td>3752, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3768, 3769, 3771, 3772,</td>
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<td>3773, 3794, 3795, 4800, 4801, 4805, 4804, 4834, 4837, 4838, 4851, 4852,</td>
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<td>4853, 4861, 4863, 4864, 4865, 4867, 4868, 4869, 4871, 4872, 4873, 4874,</td>
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<tr>
<td>4891, 4894, 4896</td>
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<tr>
<td><em>Art History and Theory</em>*</td>
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<td>Choose two 1500 level Art History courses from the following:</td>
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<tr>
<td>ART 1541, 1542, 1543, 1544, 1545</td>
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<tr>
<td>Choose three additional 3700 level or higher Art History courses from the following:</td>
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<tr>
<td>ART 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3780, 3781, 3782, 3783,</td>
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<tr>
<td>3784, 3785, 3788, 3789, 4880, 4889, 5840, 5881</td>
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<tr>
<td>Electives to meet 120 hours</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<tr>
<td><strong>Mathematics Requirement</strong></td>
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<tr>
<td>*Request a Graduation Evaluation from the CCCAC Advising Office, 2310 Bliss Hall, (330) 941-3625 after you have completed 80-85 sh.</td>
<td></td>
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</tr>
</tbody>
</table>
### Year 4

#### Fall
- ART 3700 level or higher Studio Art Elective 3
- ART 3792 or ART 3797 Video and Animation Studio or Interactive Art Studio 3
- ART Breadth Course 3
- General Education Course 3
- General Education Course 3

#### Semester Hours 15

#### Spring
- ART 4802 Senior Project 3
- ART 4803 Senior Seminar 3
- ART 4893 Advanced Digital Media Studio 3
- ART 3700 level or higher Studio Art Elective 3
- Electives to meet 120 hours 2

#### Semester Hours 14

### Total Semester Hours 120-122

### Photography Emphasis

#### Year 1

##### Fall
- YSU 1500 or SS 1500 or HONR 1500 Success Seminar or Strong Start Success Seminar or Intro to Honors 1-2
- ART 1501 Fundamentals of 2D Design 3
- ART 1521 Foundation Drawing 3
- ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
- Mathematic Requirement 3

#### Semester Hours 13-15

##### Spring
- ART 1502 Fundamentals of 3D Design 3
- ART 1522 Intermediate Drawing 3
- ART 1503 Foundation Portfolio Review 1
- ENGL 1551 Writing 2 3
- Choose one 1500 level art history course 3
- CMST 1545 Communication Foundations 3
- *Must have successful completion of Foundation Portfolio Review prior to taking Art Breadth Courses*

#### Semester Hours 16

### Year 2

#### Fall
- ART 2674 Introduction to Photography 3
- ART 2691 Introduction to Digital Media 3
- Art Breadth Course 3
- Choose one 1500 level art history course 3
- Natural Science Course with Lab 4

#### Semester Hours 16

#### Spring
- ART 3773 Digital Photography Studio 3
- Art Breadth Course 3
- ART 3700 level or higher Studio Art Elective 3
- General Education Course 3
- ART 3700 level or higher Art History Course 3

#### Semester Hours 15

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### Learning Outcomes

1.) Students will be able to demonstrate their proficiency of art vocabulary.

2.) Students will be able to demonstrate technical expertise appropriate to their progression in the program relevant to their chosen artistic medium.

3.) Students will be able to demonstrate a high level of content expression appropriate to their progression in the program relevant to their chosen artistic medium.

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### Bachelor of Fine Arts in Studio Art

#### Graphic + Interactive Design Track

#### Graphic + Interactive Design Faculty

Michelle Nelson (http://art.ysu.edu/michelle-nelson/)

**Professor**

Office: Bliss 4073  
Phone: 330.941.1858  
E-mail: mnelson@ysu.edu
# Graphic + Interactive Design

The studio art major emphasis, Graphic + Interface Design, provides students with a foundation of critical and creative design processes and prepares them for the profession of graphic and interface design — including careers in identity systems, package design, motion and web design, and creative direction. Based primarily on computer technology, students will investigate new ways of solving complex visual problems and use both print and interactive designs as solutions.

Students take one year of Foundations courses that help them hone fine arts skills in the elements of composition and design. Once students have passed the Freshman Foundations Portfolio Review, they will learn the formal principles, processes, and vocabulary of print and interface design as well as graphic design history. They develop critical thinking skills and visual conceptualization not only through visual design projects but also through writing and speaking about design processes and critical theory. Students may supplement their coursework with community projects, design competitions, and design work in the university community or through an internship.

Students participate in a Junior Portfolio Review as well as Senior Project, which guide and prepare them for working in the profession or furthering their education in graduate school.

To stay current with industry standards in both print and web, the dedicated faculty of Graphic + Interface Design routinely update the curriculum and attend conferences and workshops to pass along inspiration of today’s practices to YSU students. By remaining active in the field of design, our faculty integrate real-world design issues into classroom curriculum and projects. Graphic + Interface Design faculty are actively involved in helping their students find internships in the surrounding area, to gain further community connections and involvement in the field of design.

The faculty take pride in the skills, passion, and accomplishments with which our students graduate, all of which prepare them for a seamless transition into both regional and national design firms and graduate schools.

## Contact Information for Department of Art

To learn more about the degree programs, scholarships, exhibitions, faculty, and students, visit art.ysu.edu (http://artdept.ysu.edu/) or contact the Department of Art directly at 330-941-3627. To schedule a campus visit, contact the College Coordinator of Admissions and Recruitment at 330-941-2346.

Email: Connect Form (https://ysu.elluciancmrecruit.com/ApplyYSUUndergraduate/Account/Create/?f=d3ab7617-07fc-4187-ab77-7784aa0442b56&s=5a8ed8ff-7139-4b3e-b9a5-0182f74cb2af&oe=40be6c65-fed1-e311-942a-000c29106165&Inslnquiry=True)

## Course List

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<tr>
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<td>YSU 1500</td>
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<td>or SS 1500</td>
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<td>or HONR 1500</td>
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<td>ENGL 1550</td>
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<td>or ENGL 1549</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Mathematics Requirement</td>
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<tr>
<td>Arts and Humanities (2 courses) included in major</td>
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## Major Requirements

### Foundation Courses:

| ART 1501 | Fundamentals of 2D Design | 3 |
| ART 1502 | Fundamentals of 3D Design | 3 |
| ART 1503 | Foundation Portfolio Review | 1 |
| ART 1521 | Foundation Drawing | 3 |
| ART 1522 | Intermediate Drawing | 3 |

### Breadth Courses:

| ART 2611 | Introduction to Sculpture | 3 |
| ART 2625 | Introduction to Printmaking: Intaglio Relief | 3 |
| or ART 2626 | Introduction to Printmaking: Lithography and Screenprinting | |
| ART 2631 | Introduction to Ceramics | 3 |
| ART 2650 | Introduction to Painting | 3 |
| ART 2674 | Introduction to Photography | 3 |
| ART 2691 | Introduction to Digital Media | 3 |

### Concentration Courses

| ART 2661 | Print Design 1 | 3 |
| ART 3759 | Interactive Design 1 | 3 |
| ART 3760 | Typography 1 | 3 |
| ART 3761 | Print Design 2 | 3 |
| ART 3703 | Junior Portfolio Review | 1 |
| ART 4869 | Interactive Design Studio | 3 |
| ART 4863 | Logo + Branding Design | 3 |
| ART 4802 | Senior Project | 3 |
| ART 4803 | Senior Seminar | 3 |

### Graphic + Interactive Design Menu *CHOOSE 5 courses:*

| ART 3762 | Typography 2 | |
| ART 4864 | Package Design | |
| ART 4861 | Publication Design | |
| ART 3764 | Typeface Design | |
| ART 4869 | Interactive Design Studio (This course may be taken two times and is an optional elective.) | |
| ART 4867 | Graphic Design Internship | |
| ART 3765 | Motion Design | |
| ART 3733 | Illustration | |
| ART 3748 | Special Topics in Studio Art | |
| ART 4868 | Graphic Design Practicum | |

Art History and Theory

Choose two 1500 level Art History courses from the following: 6

| ART1541, ART1542, ART1543, ART1544, ART1545 | |

Choose three additional 3700 level or higher Art History courses from the following: 9

| ART 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3780, 3781, 3782, 3783, 3784, 3785, 3788, 3789, 4880, 4889, 5840, 5881 | |

### Electives to meet 120 hours

| **Electives to meet 120 hours** | 2 |

### Total Semester Hours

| **Total Semester Hours** | 120-122 |

### Course List

Social and Personal Awareness (2 courses)
### Year 1

#### Fall

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<td>ART 1521</td>
<td>Foundation Drawing</td>
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<td>ENGL 1550 or ENGL 1549</td>
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Mathematics Requirement: 3

Semester Hours: **13-15**

#### Spring

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<td>ART 1522</td>
<td>Intermediate Drawing</td>
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<td>ART 1503</td>
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Semester Hours: **16**

### Year 2

#### Fall

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Semester Hours: **16**

#### Spring

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<td>ART 3760 Typography *</td>
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<td>ART 3759 Interactive Design*</td>
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*Courses are offered in varying fall, spring and summer semesters. Please see graphic design program coordinator for upcoming schedule.

Semester Hours: **15**

### Year 3

#### Fall

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<td>ART 3761</td>
<td>Print Design 2 (*)</td>
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<td>ART 3703</td>
<td>Junior Portfolio Review (F/S/X)</td>
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<td>ART 4869</td>
<td>Interactive Design Studio</td>
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*Courses are offered in varying fall, spring and summer semesters. Please see graphic design program coordinator for upcoming schedule.

Semester Hours: **16**

#### Spring

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<tr>
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Semester Hours: **15**

### Year 4

#### Fall

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<td>ART 4863</td>
<td>Logo + Branding Design (*)</td>
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<tr>
<td>ART 1 of five electives from G+ID menu</td>
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<td>ART 3700 or higher Art History Course</td>
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<td>General Education Course</td>
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Semester Hours: **15**

#### Spring

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<td>ART 4803</td>
<td>Senior Seminar</td>
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Semester Hours: **14**

Total Semester Hours: **120-122**

### Learning Outcomes

1. Students will be able to demonstrate their proficiency of art vocabulary.
2. Students will be able to demonstrate technical expertise appropriate to their progression in the program relevant to their chosen artistic medium.
3. Students will be able to demonstrate a high level of content expression appropriate to their progression in the program relevant to their chosen artistic medium.

### Bachelor of Fine Arts in Studio Art

**Interdisciplinary Studio Arts Track**

**Interdisciplinary Studio Art Faculty**

Dragana Crnjak (http://art.ysu.edu/dragana-crnjak/)

**Professor**

Office: Bliss 0016
Phone: 330.941.1860
E-mail: dcrnjak@ysu.edu

Joseph D’Uva (http://art.ysu.edu/joseph-duva/)

**Professor**

Office: Bliss 4071
Phone: 330.941.2540
E-mail: jduva@ysu.edu

Missy McCormick (http://art.ysu.edu/missy-mccormick/)

**Associate Professor**

Office: Bliss 0006
Phone: 330.941.3701
E-mail: mmccormick@ysu.edu

Chris McCullough (http://art.ysu.edu/chris-mccullough/)

**Professor**

Office: Bliss 4077
Phone: 330.941.1862
E-mail: cmccullough@ysu.edu

**Request a Graduation Evaluation from the CCAC Advising Office, 2310 Bliss Hall, (330) 941-3625 after you have completed 80-85 sh.**

**Semester Hours**
Dana Sperry (http://art.ysu.edu/dana-sperry/)
Professor
Office: Bliss 4081
Phone: 330.941.3627
E-mail: jdsperry@ysu.edu

Interdisciplinary Studio Art
The Interdisciplinary Studio Art program at Youngstown State University was designed specifically for students with an interest in combining multiple disciplines.

Interdisciplinary practice is a central component of contemporary art. Students enrolled in the program explore and combine a variety of media to investigate and examine relevant topics across studio areas. The program fosters innovative thinking and making for those interested in exploring alternative and experimental methodologies.

Working closely with faculty mentors, students following this concentration have the flexibility to select the upper division coursework that corresponds with their unique vision. Students may elect to combine a minimum of eight upper-level courses in digital media, painting, ceramics, printmaking, photography, or sculpture. This rigorous, multi-media program cultivates independent thinking and intellectual curiosity and provides the knowledge and skills necessary to adapt and respond to a myriad of opportunities in a contemporary creative environment.

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Email: Connect Form (https://ysu.elluciancmrrecruit.com/ApplyYSUUndergraduate/Account/Create/?f=d3ab7617-07fc-4187-330-941-2346.

Course Title S.H.

First Year Requirement - Student Success

YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar 1-2
or HONR 1500 Intro to Honors 1-2

General Education Requirements

ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support 3
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
Mathematics Requirement 3
Arts and Humanities (2 courses) *Included in Major 0
Natural Sciences (2 courses, 1 with a lab) 7
Social Science (2 courses) 6
Social and Personal Awareness (2 courses) 6

Major Requirements

Foundation Courses:
ART 1501 Fundamentals of 2D Design 3
ART 1502 Fundamentals of 3D Design 3
ART 1521 Foundation Drawing 3
ART 1522 Intermediate Drawing 3
ART 1503 Foundation Portfolio Review 1

Choose two 2600 level or higher Studio Art Electives from the following courses (6 s.h.):

ART 2615, 2621, 2653, 2661, 2713, 2715, 2712, 2722, 2725, 2732, 2733, 2738, 2752, 2757, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2768, 2769, 2771, 2772, 2773, 2792, 2794, 2795, 2796, 2797, 4800, 4801, 4805, 4824, 4834, 4837, 4838, 4851, 4861, 4863, 4864, 4865, 4867, 4868, 4869, 4871, 4872, 4873, 4874, 4891, 4893, 4894, 4896

Concentration Courses

ART 3703 Junior Portfolio Review 1
ART 4803 Senior Seminar 3
ART 4802 Senior Project 3
Studio Art Electives (27 s.h.):

Choose nine 3700 or higher Studio Art Electives from the following courses: 27

ART 3712, 3713, 3715, 3721, 3722, 3725, 3732, 3733, 3748, 3752, 3757, 3759, 3760, 3761, 3762, 3763, 3764, 3765, 3769, 3771, 3772, 3773, 3792, 3794, 3795, 3796, 3797, 4800, 4801, 4805, 4824, 4834, 4837, 4838, 4851, 4852, 4853, 4861, 4863, 4864, 4865, 4867, 4868, 4869, 4871, 4872, 4873, 4874, 4891, 4893, 4894, 4896

Art History and Theory

Choose two 1500 level Art History courses from the following: 6
ART 1541 Survey of Art History 1
ART 1542 Survey of Art History 2
ART 1543 Survey of Art History: Gods and Monsters-Religion, Myth, and the Supernatural
ART 1544 Survey of Art History: Body, Gender, and Self
ART 1545 Survey of Art History: Politics, Cities, and Art for the Public

Choose three additional 3700 or higher Art History courses from the following: 9

ART 3714, 3742, 3743, 3744, 3745, 3746, 3747, 3780, 3781, 3782, 3783, 3784, 3785, 3788, 3789, 4880, 4889, 5840, 5681

Electives to meet 120 hours 2

Total Semester Hours 120-122

Year 1

Spring

ART 1502 Fundamentals of 3D Design 3
ART 1522 Intermediate Drawing 3
ART 1503 Foundation Portfolio Review 1
Choose one 1500 level Art History course 3

Fall

ART 1501 Fundamentals of 2D Design 3
ART 1521 Foundation Drawing 3
ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
Mathematics Requirement 3

Semester Hours 13-15

Summer

Choose two 2600 level or higher Studio Art Electives from the following courses (6 s.h.):

ART 2615, 2621, 2653, 2661, 2713, 2715, 2712, 2722, 2725, 2732, 2733, 2738, 2752, 2757, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2768, 2769, 2771, 2772, 2773, 2792, 2794, 2795, 2796, 2797, 4800, 4801, 4805, 4824, 4834, 4837, 4838, 4851, 4852, 4853, 4861, 4863, 4864, 4865, 4867, 4868, 4869, 4871, 4872, 4873, 4874, 4891, 4893, 4894, 4896

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ART 4802 Senior Project 3
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<td><strong>Year 2</strong></td>
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<td>ART 26XX Studio Breadth Course 1</td>
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<tr>
<td>Request a Graduation Evaluation from the CCAC Advising Office, 2310 Bliss Hall, (330) 941-3625 after you have completed 80-85 sh.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 3700 level or higher Studio Art Elective</td>
<td>3</td>
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</tr>
<tr>
<td>ART 3700 level or higher Studio Art Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>ART 2600 level or higher Studio Art Elective</td>
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</tr>
<tr>
<td>ART 3700 level or higher Art History Elective</td>
<td>3</td>
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<tr>
<td>General Education Course</td>
<td>3</td>
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</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ART 4802 Senior Project</td>
<td>3</td>
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</tr>
<tr>
<td>ART 4803 Senior Seminar</td>
<td>3</td>
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</tr>
<tr>
<td>ART 3700 level or higher Studio Art Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives to meet 120 hours</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td>120-122</td>
<td></td>
</tr>
</tbody>
</table>

1. Choice of Breadth Courses should be based on primary studio interests as they will be prerequisites for upper level study.

**Learning Outcomes**

1. Students will be able to demonstrate their proficiency of art vocabulary.

2. Students will be able to demonstrate technical expertise appropriate to their progression in the program relevant to their chosen artistic medium.

3. Students will be able to demonstrate a high level of content expression appropriate to their progression in the program relevant to their chosen artistic medium.

**Bachelor of Science in Education in Art Education (PK to 12) Multi-Age License**

**Art Education Faculty**

Dr. Samuel Adu-Poku ([http://art.ysu.edu/dr-samuel-adu-poku/](http://art.ysu.edu/dr-samuel-adu-poku/))

Professor

Office: Bliss Hall 4089  
Phone: 330.941.1866  
E-mail: sadupoku@ysu.edu

Dr. Lillian Lewis ([http://art.ysu.edu/dr-lillian-lewis/](http://art.ysu.edu/dr-lillian-lewis/))

Associate Professor

Office: Beeghly Hall 2404  
Phone: 330.941.1865  
E-mail: llewis02@ysu.edu

Art Education students are first and foremost artists who want to teach. They are dedicated to becoming lifelong learners, artists, researchers, and teachers. Prospective art teachers are leaders and advocates for the arts in schools, museums, community centers, and other settings while also caring about students with diverse abilities and their learning and nurturing their love of visual art.

At YSU, our program fosters professional teaching skills along with creative and intellectual growth. Students work with art education faculty who have a diverse set of research interests, ranging from the use of digital technology in the classroom and international studies to art curriculum and instruction and multicultural art education. Small class sizes and hands-on field teaching experiences effectively prepare students to enter the profession of teaching or a graduate degree program. Our graduates find rewarding and meaningful employment in public and private schools, community centers, museums, and galleries.

Students may elect art education as their major in the Department of Art as freshmen; however, they may only begin to enroll in art education and breath studio courses after successfully completing the Freshman Foundation Portfolio Review. As juniors, they will begin completing required courses, including those in professional education. The B.S.Ed. leads to teaching licensure in the State of Ohio.

**Contact Information for Department of Art**

To learn more about the degree programs, scholarships, exhibitions, faculty, and students, visit art.ysu.edu ([http://artdept.ysu.edu/](http://artdept.ysu.edu/)) or contact the Department of Art directly at 330-941-3627. To schedule a personalized
campus visit, contact the Cliffe College Coordinator of Admissions and Recruitment at 330-941-2346.

Email: Connect Form [https://ysu.elluciancrmrecruit.com/ApplyYSUUndergraduateAccount/Create/?f=d3ab7617-07fc-4187-ab77-784a0442b568&c=a5adebf7-139-4b3e-b9a5-0182f74bbabfed1-e311-942a-000c29106165&IsInquiry=True]

**ART 1541, ART 1542, ART 1543, ART 1544, or ART 1545**

Choose two 3700 level or higher Art History courses from the following: 6

| ART 3741, 3742, 3743, 3744, 3745, 3746, 3747, 3780, 3781, 3782, 3783, 3784, 3785, 3789, 4880, 4883, 4889, 5840, 5881 |
---|---|

**Total Semester Hours** 120-122

1. All students must complete and pass the Foundation Portfolio Review to take additional studio classes.

2. Art Program and BCLASSE Notes:

Advisement is highly recommended that all teacher candidates meet with an academic advisor every semester. Freshmen, athletes, and students on warning and probation are required to meet with an advisor before registration. At the completion of 30 SH any teacher candidate who:1) was required to and has not passed PRAXIS Core Exam(s), or 2) holds a GPA of 2.25 or below will be referred to Central Advising for advising and career services. If at a later date the teacher candidate passes all required parts of the Praxis Core Exam and attains a GPA of 2.25 or higher that student may return to Cliffe College for advising.

**Important Notes:**

Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the Art Education program, BCLASSE's Teacher Education Programs or candidacy for a teaching license. Formal Admission to the Art Program and Teacher Education (Upper-Division) is required before teacher candidates are allowed to enroll in certain junior and senior level courses in BCLASSE and Cliffe College's Art Ed Program. Undetermined education majors must declare a major before applying for admission to the Art Ed Program or Teacher Education Program.

Admission to the Art Ed Program and Teacher Education Program is obtained upon satisfactory completion of the following requirements:

- Minimum completion of 50 SH
- Minimum 2.75 overall GPA

Meet one of the following criteria:

- Overall GPA 3.4 or better, OR
- ACT scores of Reading-21, English-18, Math-22, AND/ OR
- SAT scores of Reading-480, Writing-480, Math-530, AND/ OR
- Praxis CORE scores, Reading-156, Writing-162, Math-150

(Attach a copy of your CORE scores to the application) "B" average or better (A-C, B-B) for:

- ENGL 1550
- ENGL 1551.

If failure to meet "B" average above must also complete:

- ENGL 2601 grade of "B" or better.

If you receive a "C" or below you will need to retake the course. "B" average or better (B-B-B, A-B-C) for:

- EDFN 1501
- CMST 1545
- SPED 2630
- ART 15XX (1500 level required Art History course)

If student does not have a "B" average, student will be required to retake one or more of these courses until the "B" average is achieved. A grade of "C" or
better is required in all required major courses. Courses taken as "CR/NC" will not count towards the major. Professional education and block courses may only be repeated one time. Minimum requirements for teaching license are determined by the Ohio Department of Education; if those requirements change, they become effective immediately at Youngstown State University.

(YSU Undergraduate Catalog)

Upper-Division Application Process:

Upper division application and forms must be printed from the Cliffe College’s Art Program website and turned into the Cliffe College’s Art Academic Advisor in Bliss Hall, Rm. 2324.

After completing a minimum of 50 SH, submit the following:

Upper Division Application Form, Good Moral Character Statement, Social Media Usage Acknowledgement Form, Copy of BCI & FBI Clearances, Schedule an upper division interview with the Art Education Program Coordinator, no later than the Upper Division Application Deadline:

September 1 —to register for Upper Division Courses for Spring
February 1 —to register for Upper Division courses for Summer & Fall

Each completed application is reviewed and approved by the Upper Division Admission and Retention Committee. If all requirements are met, the teacher candidate will receive an acceptance letter and may register for Upper Division courses for the following semester. Upper Division courses are the courses designated with the "*" symbol. Applications submitted after the deadline will not be processed until the end of the respective semester.

Program Notes:

Candidates will not be permitted to take the following professional education courses more than twice: EDFN 1501, EDFN 3708, PSYC 3709, SPED 2630, TERG 3711, all preclinical experience courses, student teaching, and student teaching seminar. If the program is concerned regarding teacher candidate performance in the preclinical experience, as determined by CPAST criteria, the program coordinator may require the teacher candidate to complete an additional preclinical experience prior to the student teaching experience.

Ohio Assessment for Educators (OAE) Exams:

Candidates are required to take and pass the OAE Art Content Exam to be eligible for student teaching. The OAE Art Content Exam should be taken the semester before student teaching. Information for the test can be found here: www.oh.neinc.com (https://www.oh.neinc.com/).

Request for Graduation Evaluation:

Graduation evaluation request must be submitted one year prior to the intended graduating semester no later than:

September 1 —for Fall
February 1 —for Spring

Student Teaching Prerequisites:

The Art Ed program and BCLASSE Upper Division and Senior status, Overall 2.75 GPA, Minimum of 2.67 GPA in subject area curriculum and professional education courses with no grade less than a “C” (each computed individually). Completion of Graduation Evaluation, and Passage of OAE test(s). Instructions for completing the Student Teaching Application and Forms are available on Cliffe College’s Art Program website.

The application and forms must be completed and printed from the Cliffe College’s Art Program website and submitted to the Cliffe College’s Art Academic Advisor in Bliss Hall, Rm. 2324 no later than:

September 1—to Student Teach the following Spring Semester

February 1 —to Student Teach the following Fall Semester

Graduation Process:

Apply for graduation during the first three weeks of the semester you plan to graduate. Graduation evaluation must be completed in advance of application for graduation.

Completing a Bachelor of Science in Education without Licensure:

Teacher candidates who choose to graduate without licensure must apply for approval with the Cliffe College Art Academic Advisor in Bliss Hall, Rm. 2324. Once approved, teacher candidates graduating without licensure must take TOED 4830 (3 SH) capstone in place of student teaching or have a total of 120 s.h. completed at the university.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ART 1501</td>
<td>3</td>
</tr>
<tr>
<td>ART 1521</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>3-4</td>
</tr>
<tr>
<td>EDFN 1501</td>
<td>3</td>
</tr>
<tr>
<td>YSU 1500 or SS 1500 or HONR 1500</td>
<td>1-2</td>
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Semester Hours: 13-15

<table>
<thead>
<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>ART 1502</td>
<td>3</td>
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<tr>
<td>ART 1522</td>
<td>3</td>
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<tr>
<td>ART 1503</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1551</td>
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<tr>
<td>MATH 2623</td>
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<tr>
<td>CMST 1545</td>
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</table>

Semester Hours: 16

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>Choose one 1500 level Art History course</td>
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<tr>
<td>ART 2650</td>
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<tr>
<td>ART 2631</td>
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<td>SPED 2630</td>
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<td>SPED 2630L</td>
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<tr>
<td>General Education - Natural Science with Lab</td>
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</table>

Semester Hours: 16

<table>
<thead>
<tr>
<th>Spring</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one 1500 level Art History course</td>
<td>3</td>
</tr>
<tr>
<td>ART 2611</td>
<td>3</td>
</tr>
<tr>
<td>ART 3737</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3711</td>
<td>3</td>
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<tr>
<td>PSYC 1560</td>
<td>3</td>
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</table>

Semester Hours: 15

Year 3

<table>
<thead>
<tr>
<th>Fall</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ART 4837</td>
<td>3</td>
</tr>
<tr>
<td>ART 2661</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Hours: 15
ART 2674  Introduction to Photography (or other Art Breadth Course)  \( \text{3 S.H.} \)
EDFN 3708  Education and Society  \( \text{3 S.H.} \)
General Education - Natural Science  \( \text{3 S.H.} \)

Semester Hours  \( \text{15 S.H.} \)

**Spring**
ART 3757  Art Education for Diverse Populations  \( \text{3 S.H.} \)
ART 2625 or ART 2626  Introduction to Printmaking: Intaglio and Relief (or other Art Breadth Course) or Introduction to Printmaking: Lithography and Screenprinting  \( \text{3 S.H.} \)
ART 2691  Introduction to Digital Media (or other Art Breadth Course)  \( \text{3 S.H.} \)
ART 3700 or higher Art History Course  \( \text{3 S.H.} \)
PSYC 3709  Psychology of Education  \( \text{3 S.H.} \)
General Education - Social & Personal Awareness  \( \text{3 S.H.} \)

*For spring semester student teaching, students should take the OAE exam between May of the third year and August of the fourth year.*

**Request a Graduation Evaluation from the CCCAC Advising Office, 2324 Bliss Hall, (330) 941-3625 after you have completed 80-85 sh.

Semester Hours  \( \text{18 S.H.} \)

**Year 4**

**Fall**
ART 4838  Professional Practices in Secondary School  \( \text{3 S.H.} \)
ART 4839  Seminar in Art Education  \( \text{3 S.H.} \)
ART 3700 level or higher Art History Course  \( \text{3 S.H.} \)
General Education - Social & Personal Awareness  \( \text{3 S.H.} \)
General Education - Social Science  \( \text{3 S.H.} \)

*Anyone planning to student teach in the spring semester must apply for student teaching by September 1st. The deadline for Fall student teaching is the previous February 1st.*

Semester Hours  \( \text{15 S.H.} \)

**Spring**
ART 4844  Supervised Student Teaching: Art (K-12)  \( \text{10 S.H.} \)
ART 4842A  Student Teaching Seminar for Art Education  \( \text{2 S.H.} \)

Semester Hours  \( \text{12 S.H.} \)

**Total Semester Hours**  \( \text{120-122 S.H.} \)

**Learning Outcomes**
The student learning outcomes for visual arts Pre-K to 12 are as follows:

- Students will demonstrate thorough knowledge of arts vocabulary.
- Students will demonstrate skills in communicating verbally and visually in their knowledge about the arts.
- Students will achieve the highest possible level of technical skills in the appropriate medium.
- Students will achieve the highest possible level of content expression in the appropriate medium.
- Students will demonstrate working knowledge of trends in general art history and theory with an emphasis in 20th century art.
- Students will demonstrate pedagogical skills and insights as they pertain to specific classroom needs.
- Students will demonstrate awareness and growth in confidence in teaching contemporary strategies while teaching the visual arts.
- Students will demonstrate skill in discriminating between creative (divergent) experiences and those that do not promote the artistic growth of the child (convergent).

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**Minor in Digital Media for Non-Art Majors**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2691</td>
<td>Introduction to Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>Select four of the following:</td>
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<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (Digital Media)</td>
<td></td>
</tr>
<tr>
<td>ART 3792</td>
<td>Video and Animation Studio</td>
<td></td>
</tr>
<tr>
<td>ART 3792</td>
<td>Video and Animation Studio</td>
<td></td>
</tr>
<tr>
<td>ART 3796</td>
<td>Ideation</td>
<td></td>
</tr>
<tr>
<td>ART 3797</td>
<td>Interactive Art Studio</td>
<td></td>
</tr>
<tr>
<td>ART 4800</td>
<td>Studio Problems (Digital Media)</td>
<td></td>
</tr>
<tr>
<td>ART 4893</td>
<td>Advanced Digital Media Studio (may be repeated 2 times for 6 s.h.)</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours**  \( \text{18 S.H.} \)

**Minor in Digital Media for Studio Art Majors**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ART 2691</td>
<td>Introduction to Digital Media</td>
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<tr>
<td>Select five (5) courses from the following:</td>
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<tr>
<td>ART 3792</td>
<td>Video and Animation Studio</td>
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<tr>
<td>ART 3796</td>
<td>Ideation (3 s.h.)</td>
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</tr>
<tr>
<td>ART 3797</td>
<td>Interactive Art Studio</td>
<td></td>
</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (*Digital Media 3 s.h.)</td>
<td></td>
</tr>
<tr>
<td>ART 4800</td>
<td>Studio Problems (may be taken twice 3-6 s.h. (permission of instructor required))</td>
<td></td>
</tr>
<tr>
<td>ART 4893</td>
<td>Advanced Digital Media Studio (may be taken twice 3-6 s.h.)</td>
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</tr>
</tbody>
</table>

**Total Semester Hours**  \( \text{18 S.H.} \)

**Minor in Graphic Design for Non-Art Majors**

<table>
<thead>
<tr>
<th>COURSE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2661</td>
<td>Print Design 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3760</td>
<td>Typography 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3761</td>
<td>Print Design 2</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
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<tr>
<td>ART 4861</td>
<td>Publication Design</td>
<td></td>
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<tr>
<td>ART 3762</td>
<td>Typography 2</td>
<td></td>
</tr>
<tr>
<td>ART 4864</td>
<td>Package Design</td>
<td></td>
</tr>
<tr>
<td>ART 4863</td>
<td>Logo + Branding Design</td>
<td></td>
</tr>
<tr>
<td>ART 3764</td>
<td>Typeface Design</td>
<td></td>
</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (Graphic + Interactive Design)</td>
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</tr>
<tr>
<td>ART 3759</td>
<td>Interactive Design 1</td>
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**Total Semester Hours**  \( \text{18 S.H.} \)
## Minor in Graphic Design for Studio Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ART 2661</td>
<td>Print Design 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3760</td>
<td>Typography 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3761</td>
<td>Print Design 2</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
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<tr>
<td>ART 3762</td>
<td>Typography 2</td>
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<tr>
<td>ART 4861</td>
<td>Publication Design</td>
<td></td>
</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (Graphic + Interactive Design)</td>
<td></td>
</tr>
<tr>
<td>ART 4863</td>
<td>Logo + Branding Design</td>
<td></td>
</tr>
<tr>
<td>ART 3759</td>
<td>Interactive Design 1</td>
<td></td>
</tr>
<tr>
<td>ART 3764</td>
<td>Typeface Design</td>
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</tr>
<tr>
<td>ART 4864</td>
<td>Package Design</td>
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**Total Semester Hours** 18

## Minor in Interactive Design for Non-Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
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</tr>
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<tbody>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2661</td>
<td>Print Design 1 (Art 1501)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3759</td>
<td>Interactive Design 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3760</td>
<td>Typography 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3769</td>
<td>Interactive Design 2 (prerequisites 3759 &amp; 3760)</td>
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<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>ART 4869</td>
<td>Interactive Design Studio (prerequisite Art 3769)</td>
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<tr>
<td>ART 3765</td>
<td>Motion Design</td>
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</tr>
<tr>
<td>ART 3761</td>
<td>Print Design 2</td>
<td></td>
</tr>
<tr>
<td>ART 4863</td>
<td>Logo + Branding Design</td>
<td></td>
</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (Graphic + Interactive Design)</td>
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</table>

**Total Semester Hours** 18

## Minor in Interactive Design for Studio Art Majors

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>ART 2661</td>
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<tr>
<td>ART 3759</td>
<td>Interactive Design 1</td>
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<tr>
<td>ART 3769</td>
<td>Interactive Design 2</td>
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<tr>
<td>Select two of the following:</td>
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</tr>
<tr>
<td>ART 4869</td>
<td>Interactive Design Studio</td>
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</tr>
<tr>
<td>ART 3761</td>
<td>Print Design 2</td>
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<tr>
<td>ART 3765</td>
<td>Motion Design</td>
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</tr>
<tr>
<td>ART 4863</td>
<td>Logo + Branding Design</td>
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</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (Graphic + Interactive Design)</td>
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**Total Semester Hours** 18

## Minor in Interdisciplinary Art for Studio Art Majors

Select 18 credits from two or three Studio Art disciplines (painting, printmaking, ceramics, sculpture, etc). Two courses must be upper division. Students cannot double count courses between the major and the minor.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2615</td>
<td>Introduction to Metals (Prerequisite ART 1503)</td>
<td>3</td>
</tr>
<tr>
<td>ART 2653</td>
<td>Watercolor (Prerequisite ART 1503)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3772</td>
<td>Digital Photography</td>
<td>1</td>
</tr>
<tr>
<td>ART 2621</td>
<td>Life Drawing (Prerequisite ART 1503)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3712</td>
<td>Intermediate Sculpture (Prerequisite ART 2611)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3713</td>
<td>Sculpture Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 3715</td>
<td>Intermediate Metals (Prerequisite ART 2615)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3721</td>
<td>Expressive Drawing (Prerequisite ART 1503)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3725</td>
<td>Intermediate Printmaking (Prerequisite ART 2625)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3732</td>
<td>Intermediate Ceramics (Prerequisite ART 2631)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3733</td>
<td>Ceramics Studio (Prerequisite ART 3732)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art (Ideation - topic varies (Prerequisite ART 2691)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3752</td>
<td>Intermediate Painting (Prerequisite ART 3751)</td>
<td>3</td>
</tr>
<tr>
<td>ART 3792</td>
<td>Video and Animation Studio (Prerequisite ART 2691)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4800</td>
<td>Studio Problems (various disciplines - Senior Standing or Permission)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4834</td>
<td>Advanced 3D Studies ((Ceramics) Prerequisite ART 3733)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4834</td>
<td>Advanced 3D Studies ((Sculpture) Prerequisite ART 3713)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4824</td>
<td>Printmaking Studio (Prerequisite ART 3725 or ART 3726)</td>
<td>3</td>
</tr>
<tr>
<td>ART 4851</td>
<td>Painting Studio (Prerequisite ART 3752)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 18

## Minor in Interdisciplinary Art for Studio Non-Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1521</td>
<td>Foundation Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 1502</td>
<td>Fundamentals of 3D Design</td>
<td>3</td>
</tr>
<tr>
<td>Select one 2600-level course from any fine art discipline (drawing, printmaking, painting, ceramics, sculpture).</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select two 3700-level courses from any fine art discipline (drawing, printmaking, painting, ceramics, sculpture).</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours** 18

## Minor in Painting for Non-Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 1521</td>
<td>Foundation Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>
ART 2650  Introduction to Painting  3
ART 3752  Intermediate Painting  3
Select two of the following:  6
ART 4851  Painting Studio  3
ART 4852  Advanced Painting 2  3
ART 4800  Studio Problems (Painting)  3
ART 2653  Watercolor  3

Total Semester Hours  27

Minor in Painting for Studio Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3752</td>
<td>Intermediate Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 4851</td>
<td>Painting Studio</td>
<td>3</td>
</tr>
<tr>
<td>ART 4852</td>
<td>Advanced Painting 2</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:  9
ART 2653  Watercolor
ART 4853  Advanced Painting 3
ART 4800  Studio Problems

Total Semester Hours  18

Minor in Printmaking for Non-Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2D Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 2674</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 3774</td>
<td>Digital Photography 1</td>
<td>3</td>
</tr>
<tr>
<td>ART 3771</td>
<td>Analog Photography Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:  6
ART 4872  Digital Photography 2
ART 4871  Analog Photography 2
ART 3748  Special Topics in Studio Art
ART 4873  Advanced Photography
ART 4800  Studio Problems (Photography)

Total Semester Hours  18

Minor in Photography for Art Majors

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2650</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>ART 3771</td>
<td>Analog Photography Studio</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four courses from the following:  12
ART 4871  Analog Photography 2
ART 4872  Digital Photography 2
ART 3748  Special Topics in Studio Art
ART 4873  Advanced Photography
ART 4800E Studio Problems (Photography) may be repeated two times

Total Semester Hours  18

Department of Theatre and Dance

Introduction
For more than 50 years, University Theatre and YSU’s Theatre & Dance programs have been offering courses, productions, and degree programs that critically and creatively serve Cliffe College, Youngstown State University, and the surrounding community. Our alumni may be found working throughout the theatre and entertainment industry both in the United States and abroad. Our full- and part-time faculty and staff are working professionals within their disciplines and provide one-on-one mentoring to our students. In addition to our BA degree in Theatre Studies where students may focus on Acting/Directing, Tech/Design or Film/Video, we also offer the professional BFA degree program where students may pursue either Theatre or a Musical Theatre track. The department also offers minors in theatre, dance, and puppetry.

Contact Info
For more information contact the Theatre & Dance Program Office at (330) 941-3627. To schedule a personalized campus visit, contact the Cliffe College Coordinator of Admissions and Recruitment at 330-941-2346.

The Theatre and Dance Program offers coursework leading to the following degrees:

- Bachelor of Arts in Theatre Studies with concentrations in Acting/Directing, Design/Tech, or Film/Video
- Bachelor of Fine Arts in Theatre
Learning Outcomes
The student learning outcomes for the major in theatre are as follows:

- **Public Performances** – Students demonstrate competence in the creation and presentation of public theatre events, either as performers, designers, or technicians.
- **Knowledge of History and Cultural Dimensions** – Students demonstrate knowledge of the history and cultural influences of and upon the institution of theatre throughout the ages.
- **Informed Assessments of Quality** – Students demonstrate the ability to critically evaluate works of theatre.
- **Critical Thinking** – Students demonstrate the ability to define a desired goal in creating a work of theatre and find solutions to achieve that goal.

In addition to the above outcomes, learning outcomes in musical theatre also include:

- **Musical Knowledge** – Students demonstrate an understanding of music theory, the keyboard, and the ability to read music.
- **Vocal Competence** – Students demonstrate an ability to sing and act a musical selection in the musical theatre style.
- **Movement** – Students demonstrate ability in the dance disciplines of ballet, tap, and jazz.

Professional Societies
Alpha Psi Omega
The Theatre & Dance Program is a member of Alpha Psi Omega, the National Honorary Dramatics Fraternity. Students may become members of the local chapter by:

- achieving the prescribed cumulative grade average
- earning a prescribed number of points through participation in dramatic activities

Membership requires sophomore standing.

Chair
Stephanie Smith, Ph.D., Professor, Chair

Professor
Katherine N. Garlick, M.F.A., Associate Professor
Matthew Mazuroski, M.F.A., Associate Professor

Lecturer
Maria Fenty Denison, D.M.A., Lecturer
Todd Dicken, M.F.A., Lecturer

Majors
- Bachelor of Fine Arts in Theatre/Musical Theatre track
- Minor in Musical Theatre, Puppetry, Theatre Studies, Dance, or Film

Minors
- Minor in Theatre (p. 297)
- Minor in Musical Theatre (p. 298)
- Minor in Dance (p. 297)
- Minor in Film Studies (p. 297)
- Puppetry Minor for Non-Theatre Majors (p. 297)
- Puppetry Minor for Theatre Majors (p. 298)

Dance
DNCE 1540 Modern Dance 1 1 s.h.
The theory and practice of modern dance technique at the beginning level. No previous dance experience is expected. Coursework includes body mechanics, axial and locomotor movement, and improvisation.

DNCE 1550 Conditioning and Wellness for the Performing Artist 1 s.h.
A supplement to the study of dance technique and performance, this course will help students increase their strength, flexibility, and stamina. Coursework will include various somatic systems such as Pilates and Yoga and wellness issues such as nutrition, physical and mental health, and injury prevention and treatment.

DNCE 1570 Jazz Dance 1 1 s.h.
The theory and practice of jazz dance technique at the beginning level. No previous dance experience is expected. Coursework includes body mechanics, rhythmic fundamentals, and movement exercises relating to various pop, street, and musical theatre styles.

DNCE 1571 Tap Dance 1 1 s.h.
The theory and practice of tap dance technique at the beginning level. No previous dance experience is expected. Coursework includes vocabulary and movement exercises in both Buck and Wing and Rhythm styles.

DNCE 1572 Ballet 1 1 s.h.
The theory and practice of ballet technique at the beginning level. No previous dance experience is expected. Coursework includes fundamentals of vocabulary, placement, and execution at the barre, center, and across the floor.

DNCE 1575 Hip Hop Dance 1 s.h.
An introduction to hip hop dance and its relationship to other aspects of hip hop culture, music, and media. Coursework includes street styles, breaking, and various regional forms.

DNCE 2641 Modern Dance 2 2 s.h.
The theory and practice of modern dance technique at the intermediate level. Increased technical and artistic accomplishment is expected. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 1540 or permission of the instructor.

DNCE 2667 Musical Comedy 1 s.h.
This course will supplement the dance technique track specifically in support of the study of musical theatre. Students will practice various social, world, and theatrical dance forms, learn selections from iconic choreography, experience mock dance auditions, and explore the skill of dance composition in musical theatre repertory.
Prereq.: One course in either ballet or jazz dance.

DNCE 2670 Jazz Dance 2 2 s.h.
The theory and practice of Jazz dance technique at the intermediate level. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 1570 or permission of the instructor.

DNCE 2671 Tap Dance 2 2 s.h.
The theory and practice of tap dance technique at the intermediate level. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 1571 or permission of the instructor.

DNCE 2673 Ballet 2 2 s.h.
The theory and practice of ballet technique at the intermediate level. Increased technical and artistic accomplishment is expected. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 1572 or permission of the instructor.
DNCE 2698  Survey of Dance  3 s.h.
The role of dance in culture and history, tracing the evolution of various folk, social, and concert forms. Structural and stylistic elements important for the appreciation of movement and dance.

Gen Ed: Arts and Humanities.

DNCE 3742  Dance Composition 1  2 s.h.
An introduction to the basic tools of dance composition beginning with improvisation and including body, space, time, energy, and elements of design.
Prereq.: DNCE 2641 or permission of the instructor.

DNCE 3751  Modern Dance 3  2 s.h.
The theory and practice of modern dance technique at the advanced level. Increased technical and artistic accomplishment is expected. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 2641 or permission of the instructor.

DNCE 3770  Jazz Dance 3  2 s.h.
The theory and practice of jazz dance technique at the advanced level. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 2670 or permission of the instructor.

DNCE 3771  Tap Dance 3  2 s.h.
The theory and practice of tap dance technique at the advanced level. Increased physical dexterity and rhythmic nuance are expected. Course may be repeated twice for up to six hours credit.
Prereq.: DNCE 2671 or permission of the instructor.

DNCE 3781  Ballet 3  2 s.h.
The theory and practice of ballet technique at the advanced level. Increased technical and artistic accomplishment is expected. Course may be repeated twice for up to six hours credit. 
Prereq.: DNCE 2673 or consent of the instructor.

DNCE 3791  Dance Participation 1  s.h.
Involvement with the Dance Ensemble rehearsal process and performance. Must be taken at least four times during the time a student is a dance major. Course may be repeated up to seven times. By audition only.
Coreq.: With any dance technique course or permission of the instructor.

DNCE 4801  Modern Dance 4  2 s.h.
The theory and practice of modern dance technique at the pre-professional level. A high level of technical achievement, artistry, and professionalism is expected. Pre-professional level courses will include composition and pedagogy. Course may be repeated for credit.
Prereq.: DNCE 3751 or permission of the instructor.

DNCE 4801  Modern Dance 4  2 s.h.
The theory and practice of ballet technique at the pre-professional level. A high level of technical achievement, artistry, and professionalism is expected. Pre-professional level courses will include composition and pedagogy. Course may be repeated for credit.
Prereq.: DNCE 3781 or permission of instructor.

DNCE 4893  Independent Study in Dance 1-3 s.h.
Independent work in dance practice, pedagogy, composition, or theory under faculty guidance. Intended to allow the student to broaden their experience and expertise in an artistic or academic area of dance beyond the published coursework. May substitute for DNCE 3765 OR 4865 in the dance major, should the student propose an appropriate topic and demonstrate equivalent relevance and rigor.
Prereq.: Permission of the instructor.

DNCE 4898  Senior Project 3 s.h.
Capstone experience expected of all students in the major. Significant demonstration of practical or scholarly ability in Dance choreography and/or pedagogy.
Prereq.: Senior standing.

Theater

THTR 1512  The American Musical  3 s.h.
Learn how musicals and American history both dovetail and intersect to give a reflection of who we are as Americans. In this course, students will reclaim knowledge of 20th-century American history centered around New York City, circa 1900 to the present. Through lenses of cultural trends, government, economy, identity, and technology, the art forms that developed into the American musical will be surveyed, while discovering how the genre itself, is affected by society.

Gen Ed: Arts and Humanities.

THTR 1559  Production Design for Stage and Screen  3 s.h.
An introduction to design for theatrical and film production, and the creative processes used by designers to make choices. Topics include script analysis, director and designer communication, and the integration of design elements into a unified production.

THTR 1560  Introduction to Theatre  3 s.h.
The theory, history, cultural role, and physical characteristics of the theatre as an institution in human society.

Gen Ed: Arts and Humanities.

THTR 1561  Stagecraft 3 s.h.
The technical elements of play production, with emphasis on stage mechanics, set construction, and scene painting.

THTR 1563  Costume Construction and Craft  3 s.h.
Introduction to stage costuming through the study and application of costume construction techniques and costume crafts, the use of appropriate equipment, and costume maintenance through various projects involving the special techniques used for stage costuming.

THTR 1585  Acting 1: Fundamentals  3 s.h.
The fundamental theories and techniques of acting. Through a combination of classroom exercises, laboratory performances, readings and written assignments, will learn the fundamentals of Stanislavsky's acting theory. This course will include a holistic approach to acting whereby the students will develop their physical and vocal instruments, their emotional intelligence, their ability to research and analyze the actor's text, and to reawaken their creative intuition. One hour lecture/three hours lab.

THTR 1590  History of Motion Pictures  3 s.h.
The history of the motion picture from its beginnings to the present, with emphasis on the milestones of film as a performing art. Viewing of significant films from various periods and countries.

Gen Ed: Arts and Humanities.

THTR 2600  Theatre Participation 1 s.h.
Expected involvement in the main stage productions of the department. Students will audition for all main stage productions, or accept a significant assignment in stage management, costume, scenery, lighting or other technical elements of production. Must be taken once each semester during the time that a student is in residence as a theatre major, for a minimum of 3, or its equivalent. Course may be repeated up to three times.

Prereq.: a declared major in theatre, and faculty permission.

THTR 2601  Singing Styles  1 s.h.
Students designated BFA in Musical Theatre will audition for all main stage musicals, as well as audition for participation in all other vocal/singing opportunities within the department. This course serves as the training, support, workshop, and lab for these activities. Students will train in multiple singing styles to achieve higher marketability as versatile performers. Must be taken once during the time each student is in residence as a musical theatre major but may be taken multiple times. Open to minors and non-majors by audition.

THTR 2607  Introduction to Puppetry  3 s.h.
An overview of the history of puppets in world drama, combined with practical exercises in making inanimate objects come to “life” for the purpose of creating works of theater. Includes puppet construction and performance. One hour lecture/three hours lab.

Prereq.: Sophomore standing or permission of the instructor.
THTR 2661 Stage Management 1 s.h.
Basic principles and techniques of stage management including job functions and responsibilities, production organization, problem solving and specialized paperwork. Stage management of a production and one hour lecture per week. Stage management of a production is a requirement of the class. Grade: Traditional/PR.
Prereq.: THTR 1559.

THTR 2664 Musical Theatre Studio 3 s.h.
Performance-based training, coaching, lecture, and media merge to clarify the styles and techniques of musical theatre. This course explores the many musical theatre genres, as well as the historic and stylistic differences therein. Students study, analyze, coach, and rehearse music from the MT canon. This studio course is presented in two time periods—representing one semester each: Early Musical Comedy through Classic Musical Theatre (1893-1965) and Musical Theatre: 1965-present. The time period alternates each spring. Prereq. or Coreq.: THTR 2668 and VOIC 1501T or other evidence of vocal training; and sophomore standing.

THTR 2667 Acting 2: Voice for the Actor 3 s.h.
Technical elements of voice for the stage. Physical exercises designed to improve stage speech, vocal projection, articulation and clarity. Application of principles and skills to a variety of texts from a performer's perspective. Prereq.: THTR 2668.

THTR 2668 Acting 1: Fundamentals 3 s.h.
The fundamental theories and techniques of acting. Major emphasis on theatre acting, but consideration is given to radio and television acting. Prereq.: THTR 1559 or permission of instructor.

THTR 2690 The Art of Motion Pictures 3 s.h.
Analysis of the structure of the motion picture, the development of the script, the function of editing, the approach to acting in film production, and the problems faced by a director in film production. Criteria of artistic film making. Examples from motion pictures are screened and discussed. Prereq.: Sophomore standing.

Gen Ed: Arts and Humanities.

THTR 3700 Theatre Participation 2 1 s.h.
Expected involvement in the main stage productions of the department. Students will audition for all main stage productions, or accept a significant assignment in stage management, costume, scenery, lighting or other technical elements of production. Must be taken once each semester during the time that a student is in residence as a theatre major for a minimum of 4, or it's equivalent. Course may be repeated up to four times.
Prereq.: a declared major in theater and faculty permission.

THTR 3701 Professional Preparation 2 s.h.
This course covers topics vital to preparation for the business of professional theatre. Contracts, taxes, marketing, resumes, e-portfolios, interviewing, job hunting and legal considerations are among several topics to be discussed. Prereq.: THTR 1560, THTR 1561, or THTR 2668 and junior standing as theatre major.

THTR 3707 Topics in Puppetry 3 s.h.
Studio/lecture course designed to provide students with an opportunity to further explore the work of the puppeteer as story-teller and creative artist. Students will receive training in design, manipulation, script writing/ adaptation, and puppet performance. Students will develop understanding and skills through lecture, demonstration, laboratory exercise and independent work conducted outside of class. Students will also be involved in group project work leading to a public performance. Course can be taken multiple times if the topic is different. (One hour lecture/three hours lab).
Prereq.: Junior standing or permission of instructor.

THTR 3761 Stage Makeup 3 s.h.
Design and application of makeup for the stage including techniques for character and age makeup, making and applying facial hair, and other specialized makeup procedures. Prereq.: THTR 1559 or permission of instructor.

THTR 3762 Directing 1 3 s.h.
An intensive study of the process of directing plays. Whenever possible, students direct the equivalent of a one-act play for public presentation. Lab hours by arrangement. Prereq.: THTR 1559 and THTR 3768 or concurrently or permission of instructor.

THTR 3763 Scene Design 3 s.h.
The history of design in terms of stage scenery; an investigation of current trends, techniques, and media; practical execution of models and sketches by the student. Prereq.: THTR 1559 and THTR 1561 or consent of the instructor.

THTR 3764 History of Stage Costume 3 s.h.
A survey of stage costumes based on western styles from the ancient Egyptians to the present with emphasis on periods in which the theatre flourished. Prereq.: THTR 1559 or permission of instructor.

THTR 3765 Lighting Design 3 s.h.
A study of historical development, basic electrical theory, switch boards and lighting instruments; color theory; principles and practices in stage lighting. Lab hours to be arranged. Prereq.: THTR 1559 and THTR 1561 or consent of instructor.

THTR 3766 Stage Combat 3 s.h.
Applied skills class specializing in armed and unarmed combat for the stage. Safety factors in stage fighting, including safe use of rapier and dagger. Performance in public required. Prereq.: THTR 2668 or MUEN 0012 or KSS 1514 or permission of instructor.

THTR 3768 Script Analysis for Stage and Screen 3 s.h.
An introduction to various critical approaches to dramatic literature utilized by actors, directors, designers, dramaturgs, and other artists in theatre and film. Special attention is given to the text as a foundation for realized production and the author's use of dramatic structure, action, subtext, and symbolism. Prereq.: THTR 1560 or permission of instructor.

THTR 3769 Costume Design 3 s.h.
Costume design for the stage through a study of script analysis, design concepts and principles, and costume rendering techniques. Prereq.: THTR 1559 or permission of instructor.

THTR 4860 Theatre History after 1700 3 s.h.
History of the physical theatre and representative dramatic texts from 1700 to the modern era. Prereq.: 9 s.h. of THTR coursework, 3 of which must be upper division.

THTR 4863 Acting 3: Styles 3 s.h.
A study of specific theories, techniques, and approaches to creating the various styles of acting. Emphasis on scene study featuring important historical styles of performance. Prereq.: THTR 1559 and THTR 2668.

THTR 4866 Summer Theatre Workshop 1-3 s.h.
Participation in the summer theatre program involving all aspects of theatrical production. Positions of significant responsibility. Prereq.: Junior standing in Theatre, or permission of instructor.

THTR 4868 Children's Theatre 3 s.h.
A study of the process of theatre production by and for elementary school children, including theory, objectives, and methods. Prereq.: THTR 3762 or senior standing in Elementary Education with permission of instructor.

THTR 4869 Creative Dramatics 3 s.h.
Basic elements of playmaking, improvisation, story dramatization, pantomime, dialogue, and characterization. Experience with area school children provided when possible. Intended for elementary education majors and drama certification. Prereq.: Junior standing with 9 s.h. of theatre courses (including THTR 1559 and THTR 2668) or junior standing in Elementary Education with permission of instructor.
THTR 4870 Acting 4: Acting on Camera 3 s.h.
A exploration of the theory and technique of film and video performance, and the special demands they make upon an actor.
Prereq.: THTR 2668 and THTR 2667 and junior standing, or consent of instructor.

THTR 4891 Theatre History Before 1700 3 s.h.
History of the physical theatre and representative dramatic texts from the Classical period through the Renaissance.
Prereq.: 9 s.h. of THTR coursework, 3 of which must be upper division.

THTR 4893 Independent Study in Theatre 1-3 s.h.
Independent work in theatre production under faculty/staff guidance. Intended as a continuation of individualized creative work beyond THTR 3791 or THTR 3792. Project dependent upon approval of the evaluating faculty member and the student. May be repeated with different topics for a total of 9 s.h.
Prereq.: THTR 3791 or THTR 3792.

THTR 4898 Senior Project 3 s.h.
Capstone experience expected of all seniors in the degree programs of the department. Significant demonstration of practical or scholarly ability in one of the sub-disciplines comprising the disciplines of theatre or dance, and showing evidence of solid writing, speaking, and critical thinking skills. Grading is A,B,C,NC/PR.
Prereq.: Senior standing with the expectation of graduating by the end of the following semester.
Gen Ed: Capstone.

THTR 4899 Topics in Theatre 3 s.h.
In-depth study of selected aspects in theatre scholarship, theory or practice. May be repeated if the topic changes.
Prereq.: Junior standing or permission of instructor.

THTR 4899U Topics in Theatre Dance Pedagogy 3 s.h.
In-depth study of selected aspects in theatre scholarship, theory or practice. May be repeated if the topic changes.
Prereq.: Junior standing or permission of instructor.

THTR 5864 Directing 2 3 s.h.
A study of specific theories, techniques, and various important styles in play directing.
Prereq.: THTR 1559 and THTR 3762.

Bachelor of Arts in Theatre Studies

The Bachelor of Arts in Theatre Studies combines an array of liberal arts coursework with extensive practical training in the techniques of theatre production. Students work closely with their instructors in the classroom as well as in laboratory settings. As with any liberal arts degree, the BA is primarily designed to provide students with a broad general education, but its location in a department of theatre provides special opportunities to develop production/performance skills as well.

Important Notes

- You must complete coursework totaling a minimum of 120 s.h. to graduate (at least 60 s.h. must be completed at the 2500 level or higher and 39 s.h. must be at the 3700 level or higher).
- The following courses do NOT count as hours toward graduation:
  
<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1507</td>
<td>Intermediate Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1509</td>
<td>Academic English for Non-native Speakers</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1512</td>
<td>English Conversation for Non-native Speakers</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1539</td>
<td>Fundamentals of College Writing</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1540</td>
<td>Introduction to College Writing</td>
<td>3</td>
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<tr>
<td>RSS 1510A</td>
<td>Advanced College Success Skills</td>
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<td>RSS 1510B</td>
<td>Basic College Success Skills</td>
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<tr>
<td>RSS 1510C</td>
<td>STEM Advanced College Success Skills</td>
<td>4</td>
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</tbody>
</table>

- The residency rule states that the last 30 s.h. of your degree and at least 16 s.h. in your major and 21 s.h. in upper-division courses must be completed at YSU.
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Grade of "C" or better is required for all major and minor courses. Courses cannot be taken "CR/NC".

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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</table>

General Education Requirements

| ENGL 1550 | Writing 1 | 3-4 |
| or ENGL 1549 | Writing 1 with Support | |
| ENGL 1551 | Writing 2 | 3 |
| CMST 1545 | Communication Foundations | 3 |
| Mathematics Requirement | | 3 |
| Arts and Humanities (6 s.h.) | | |
| Requirement is met through required courses in the major (THTR 1512 and either THTR 1590 or THTR 2690) | | |
| Natural Science (2 courses; one with lab) (6-7 s.h.) | | 7 |
| Social Science (6 s.h.) | | 6 |
| Social and Personal Awareness (6 s.h.) | | 6 |
| Foreign Language Requirement | | |
| FNLG 1550 | Elementary Foreign Language | 4 |
| FNLG 2600 | Intermediate Foreign Language | 4 |

<p>| Major Requirements | | |
| THTR 2600 | Theatre Participation (must be repeated 3 times for a total of 3 s.h.) | 3 |
| THTR 1512 | The American Musical | 3 |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>THTR 1559</td>
<td>Production Design for Stage and Screen</td>
<td>3</td>
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<tr>
<td>THTR 1590 or THTR 2690</td>
<td>History of Motion Pictures</td>
<td>3</td>
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<tr>
<td>THTR 2661</td>
<td>Stage Management</td>
<td>1</td>
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<tr>
<td>THTR 3768</td>
<td>Script Analysis for Stage and Screen</td>
<td>3</td>
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<tr>
<td>THTR 3700</td>
<td>Theatre Participation 2 (must be repeated four times for a total of 4 s.h.)</td>
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<tr>
<td>THTR 4891</td>
<td>Theatre History Before 1700</td>
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<td>THTR 4860</td>
<td>Theatre History after 1700</td>
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<td>THTR 4898</td>
<td>Senior Project</td>
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<td><strong>General Studies</strong></td>
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<td>THTR 1561</td>
<td>Stagecraft</td>
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<tr>
<td>THTR 2668</td>
<td>Acting 1: Fundamentals</td>
<td>3</td>
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<tr>
<td>THTR 3701</td>
<td>Professional Preparation</td>
<td>2</td>
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<tr>
<td>THTR 4893</td>
<td>Independent Study in Theatre</td>
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<td><strong>Electives: Select 24 s.h. of Theatre electives or double major (at least 12 s.h. upper division).</strong></td>
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<td>CHOOSE BETWEEN THE ACTING/DIRECTING TRACK or DESIGN/TECH TRACK</td>
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<td>THTR 2667</td>
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<td>THTR 3761</td>
<td>Stage Makeup</td>
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<td>THTR 3762</td>
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<td>THTR 3766</td>
<td>Stage Combat</td>
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<td>THTR 4863</td>
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<td>THTR 4870</td>
<td>Acting 4: Acting on Camera</td>
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<td>THTR 4893 OR THTR 4899</td>
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<td><strong>Tech Design Track Courses</strong></td>
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<td>THTR 1563</td>
<td>Costume Construction and Craft</td>
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<td>THTR 2607</td>
<td>Introduction to Puppetry</td>
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<td>THTR 3763</td>
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<td>THTR 3765</td>
<td>Lighting Design</td>
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<td>THTR 3764</td>
<td>History of Stage Costume</td>
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<td>THTR 3769</td>
<td>Costume Design</td>
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<td>THTR 4893 OR THTR 4899</td>
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**Year 1**

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<td>The American Musical</td>
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<td>THTR 1559</td>
<td>Production Design for Stage and Screen</td>
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<td>THTR 2668</td>
<td>Acting 1: Fundamentals</td>
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**Spring**

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<td>MATH XXXX Approved General Education Math course</td>
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<td>ENGL 1551</td>
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**Year 2**

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**Spring**

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<tr>
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<tr>
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<td>THTR 3700 Theatre Participation 2</td>
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<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
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<td>THTR 2661</td>
<td>Stage Management</td>
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<td>Natural Science + Lab</td>
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**Year 3**

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<td>Theatre History Before 1700</td>
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<td>Minor Course</td>
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<td>Minor Course</td>
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**Spring**

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<tr>
<td>THTR 4860</td>
<td>Theatre History after 1700</td>
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<tr>
<td>THTR 4893 or THTR 4895</td>
<td>Independent Study in Theatre or</td>
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<tr>
<td>Natural Science</td>
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<td>THTR 3700C Theatre Participation 2</td>
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<td>Minor Course</td>
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**Year 4**

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<tr>
<td>Fall</td>
<td>THTR 3700D Theatre Participation 2</td>
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<tr>
<td>Social and Personal Awareness</td>
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<tr>
<td>Upper Division Elective</td>
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<tr>
<td>Minor or Elective</td>
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<td>Elective</td>
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**Spring**

<table>
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<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>THTR 4898</td>
<td>Senior Project</td>
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<tr>
<td>Social Science</td>
<td></td>
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<tr>
<td>Upper Division Elective</td>
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<td>Upper Division Elective</td>
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<td>Elective</td>
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<tbody>
<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
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</table>

**Total Semester Hours 120-122**
Learning Outcomes

1. Public Performances – Students will competently create and present public theatre events, either as performers, designers or technicians.
2. Knowledge of History and Cultural Dimensions: Students will explain the history and cultural influences of and upon the institution of theatre throughout the ages.
3. Informed Assessments of Quality: Students will critically evaluate works of theatre.
4. Critical Thinking: Students will define a desired goal in creating a work of theatre and devise a plan to achieve that goal.

Bachelor of Arts in Theatre Studies, Film Video Track

The Bachelor of Arts in Theatre Studies, Film/Video Studies combines an array of liberal arts coursework with extensive practical training in the techniques of theatre, film, and video production. Students work closely with their instructors in the classroom as well as in laboratory settings. As with any liberal arts degree, the BA is primarily designed to provide students with their instructors in the classroom as well as in laboratory settings. As with any liberal arts degree, the BA is primarily designed to provide students with

Important Notes

- View the Undergraduate Catalog online for information including course descriptions and prerequisites, major and minor requirements, academic policies, etc.
- Check the Undergraduate Catalog for course prerequisites; classes taken out of sequence will not count toward graduation.
- A grade of "C" or better is required in all required major and minor courses. Courses taken as "CR/NC" will not count toward the major or minor.
- Courses cannot count toward both the major and minor.
- Courses taken for the major and minor may be applied toward satisfying General Education requirements but credit hours cannot be double counted.
- Course numbers of 3700 and higher are considered upper-division courses.
- You must complete coursework totaling a minimum of 120 s.h. to graduate (at least 60 s.h. must be completed at the 2600 level or higher and 39 s.h. must be at the 3700 level or higher).
- The following courses do NOT count as hours toward graduation:

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<td>MATH 1507</td>
<td>Intermediate Algebra</td>
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<td>ENGL 1509</td>
<td>Academic English for Non-native Speakers</td>
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<td>ENGL 1512</td>
<td>English Conversation for Non-native Speakers</td>
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<td>ENGL 1539</td>
<td>Fundamentals of College Writing</td>
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<td>ENGL 1540</td>
<td>Introduction to College Writing</td>
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<td>RSS 1510A</td>
<td>Advanced College Success Skills</td>
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  - When your evaluation is complete, make an appointment with the chairperson of your department.
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Math Requirement (from approved courses)</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>THTR 1590</td>
<td>History of Motion Pictures</td>
<td>3</td>
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<td>or THTR 2690</td>
<td>The Art of Motion Pictures</td>
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<tr>
<td>THTR 1512</td>
<td>The American Musical</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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Foreign Language Requirement

- Foreign Language 1550 | 4
- Foreign Language 2660 | 4
- Grade of "C" or better is required. Courses cannot be taken "CR/NC"

Core Courses

- Theater Participation 1 (THTR 2600) must be repeated 3 times for a total of 3 s.h.
- THTR 1512 | The American Musical | 3
- THTR 1559 | Production Design for Stage and Screen | 3
- THTR 1590 | History of Motion Pictures | 3
- or THTR 2690 | The Art of Motion Pictures | 3
- THTR 2661 | Stage Management | 1
- Theater Participation 2 (THTR 3700) must be repeated 4 times for a total of 4 s.h.
- DNCE 2698 | Survey of Dance | 3
- THTR 3768 | Script Analysis for Stage and Screen | 3
- THTR 4891 | Theatre History Before 1700 | 3
- THTR 4860 | Theatre History after 1700 | 3
- THTR 4898 | Senior Project | 3

Interdisciplinary Film/Video Studies

- THTR 1561 | Stagecraft | 3
- CMST 2650 | Rhetoric of Film | 3
- ENGL 2665 | Introduction to Film Study | 3
- THTR 3701 | Professional Preparation | 2
- ENGL 3748 | Screenwriting | 3
- THTR 3762 | Directing 1 | 3
- or THTR 4870 | Acting 4: Acting on Camera | 3
- THTR 3763 | Scene Design | 3
- or THTR 3765 | Lighting Design | 3
- or THTR 3769 | Costume Design | 3
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<td>THTR 4893</td>
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<td>Production (20 s.h.)</td>
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<td>Scriptwriting for Electronic Media</td>
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<tr>
<td>TCOM 3781</td>
<td>Audio Production</td>
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<tr>
<td>TCOM 3782</td>
<td>Video Production 1</td>
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<td>THTR 1590</td>
<td>History of Motion Pictures</td>
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<tr>
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<td>Any Upper Division University Course (If need to reach 120 hours)</td>
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<td>Science with Lab</td>
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<td>THTR 1512</td>
<td>The American Musical</td>
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<td>Social and Personal Awareness Gen Ed</td>
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<td>Science Gen Ed</td>
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<td>THTR 3768</td>
<td>Script Analysis for Stage and Screen</td>
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<td>THTR 2661</td>
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<td>TCOM 3781</td>
<td>Film Genres</td>
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<tr>
<td>ENGL 3765</td>
<td>Film Genres</td>
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<td>THTR 4891</td>
<td>Theatre History Before 1700</td>
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<td>THTR 3700</td>
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<td><strong>Theatre Design Course</strong></td>
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<td>Screenwriting</td>
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### Year 4

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<td>Social Science Gen Ed</td>
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<td><strong>Specialization Course: TCOM 3781 or ART 4891 or ENGL 3765 (second time)</strong></td>
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<td>THTR 4893</td>
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#### Spring

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<tr>
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<td><strong>Specialization Course: TCOM 4850 or ART Upper Division Elective or ENGL 4865</strong></td>
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<td>37XX/48XX Film Elective</td>
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Important Notes

- View the Undergraduate Catalog for information including course descriptions and prerequisites, major and minor requirements, academic policies, etc.
- Check the Undergraduate Catalog for course prerequisites; classes taken out of sequence will not count toward graduation.
- A grade of "C" or better is required in all required major and minor courses. Courses taken as "CR/NC" will not count towards the major or minor.
- Courses cannot count toward both the major and minor.
- Courses taken for the major and minor may be applied toward satisfying General Education requirements, but credit hours cannot be double counted.
- Course numbers of 3700 and higher are considered upper-division courses.
- You must complete coursework totaling a minimum of 120 s.h. to graduate (at least 60 s.h. must be completed at the 2600 level or higher and 39 s.h. must be at the 3700 level or higher).
- The following courses do NOT count as hours toward graduation:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 1501</td>
<td>Intermediate Algebra</td>
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<tr>
<td>MATH 1507</td>
<td>Intermediate Algebra</td>
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<td>ENGL 1509</td>
<td>Academic English for Non-native Speakers</td>
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<td>ENGL 1512</td>
<td>English Conversation for Non-native Speakers</td>
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<td>ENGL 1539</td>
<td>Fundamentals of College Writing</td>
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<td>Introduction to College Writing</td>
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<td>RSS 1510A</td>
<td>Basic College Success Skills</td>
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<td>RSS 1510B</td>
<td>Basic College Success Skills</td>
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<td>RSS 1510C</td>
<td>STEM Advanced College Success Skills</td>
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<td>RSS 1510D</td>
<td>STEM Advanced College Success Skills</td>
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- The residency rule states that the last 30 s.h. of your degree and at least 16 s.h. in your major and 21 s.h. in upper-division courses must be completed at YSU.
- Eligibility to continue receiving federal financial aid is affected by your "satisfactory academic progress." Carefully review details on the Office of Financial Aid and Scholarship (http://cfweb.cc.ysu.edu/finaid/) website.
- Meet with your advisor on a regular basis to ensure you are meeting requirements for graduation.

Graduation Process

- One Year Before Expected Graduation
  - Request a Graduation Evaluation
  - When your evaluation is complete, make an appointment with the chairperson of your department.
- Semester You Plan To Graduate

Apply for graduation during the first three weeks of the semester you plan to graduate (you must have a graduation evaluation completed in advance).

Grade of "C" or better is required. Courses cannot be taken "CR/NC".

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

| ENGL 1550 | Writing 1 | 3-4 |
| ENGL 1551 | Writing 2 | 3 |
| CMST 1545 | Communication Foundations | 3 |
| Mathematics Requirement | |
| THTR 1512 | The American Musical (required for major) | 3 |
| THTR 1560 | Introduction to Theatre (required for major) | 3 |
| Natural Sciences (2 courses, 1 with lab) | |
| Social Science (2 courses) | |
| Social and Personal Awareness (1 course) | |
| KSS 1500 | Physical Activity Core Concepts | 1 |
| KSS 1550 | Pilates | 1 |
| KSS 1552 | Yoga | 1 |

Major Requirements

| THTR 1559 | Production Design for Stage and Screen | 3 |
| THTR 1561 | Stagecraft | 3 |
| Theatre Participation 1 (THTR 2600) must be taken 3 times for a total of 3 s.h. | |
| THTR 2601 | Singing Styles | 1 |
| THTR 2664 | Musical Theatre Studio | 3 |
| THTR 2667 | Acting 2: Voice for the Actor | 3 |
| THTR 2668 | Acting 1: Fundamentals | 3 |
| Theatre Participation 2 (THTR 3700) must be taken 4 times for a total of 4 s.h. | |
| THTR 3701 | Professional Preparation | 2 |
| THTR 3761 | Stage Makeup | 3 |
| THTR 3762 | Directing | 3 |
| THTR 3768 | Script Analysis for Stage and Screen | 3 |
| THTR 4860 | Theatre History after 1700 | 3 |
| THTR 4898 | Senior Project | 3 |
| VOIC 1501T | Voice Musical Theatre 1 | 2 |
| VOIC 1502T | Voice Musical Theatre 2 | 2 |
| VOIC 2601T | Advanced Musical Theatre 1 | 2 |
| VOIC 2602T | Advanced Musical Theatre 2 | 2 |
| VOIC 3701 | Keyboard Musicianship for Non-Music Majors 1 | 1 |
| MUAC 1521 | Keyboard Musicianship for Non Music Majors 2 | 1 |
| MUTC 1541 | Aural Theory 1 | 2 |
| DNCE 1570 | Jazz Dance 1 | 1 |
| DNCE 1571 | Tap Dance 1 | 1 |
| DNCE 1572 | Ballet 1 | 1 |
| DNCE 2667 | Musical Comedy | 1 |
| DNCE 2670 | Jazz Dance 2 | 2 |
| DNCE 2671 | Tap Dance 2 | 2 |
DNCE 2673  Ballet 2 2
DNCE 3770  Jazz Dance 3 2
DNCE 3771  Tap Dance 3 2
DNCE 3781  Ballet 3 2

Select two of the following: 6

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<td>History of Stage Costume</td>
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<td>THTR 3765</td>
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<td>THTR 3766</td>
<td>Stage Combat</td>
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<td>THTR 4863</td>
<td>Acting 3: Styles</td>
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<td>THTR 4899</td>
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Electives to meet 120 hours 2

Total Semester Hours 120-122

Year 1

Fall

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<td>DNCE 1571</td>
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<td>ENGL 1550</td>
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Semester Hours 15-17

Spring

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Semester Hours 16

Year 2

Fall

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<td>Ballet 3</td>
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<td>THTR 1512</td>
<td>The American Musical</td>
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<td>THTR 1561</td>
<td>Stagecraft</td>
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<td>THTR 2601</td>
<td>Singing Styles</td>
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<td>CMST 1545</td>
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Semester Hours 17

Spring

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<td>THTR 3761</td>
<td>Stage Makeup</td>
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Social Science GER 3

THTR 2667  Acting 2: Voice for the Actor 3
THTR 3768  Script Analysis for Stage and Screen 3

Semester Hours 17

Year 3

Fall

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<td>THTR 4860</td>
<td>Theatre History after 1700</td>
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<td>THTR 3762</td>
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Semester Hours 15

Spring

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<td>DNCE 3770</td>
<td>Jazz Dance 3</td>
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<td>THTR 2664</td>
<td>Musical Theatre Studio</td>
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<td>Upper Division THTR Elective</td>
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<tr>
<td>MATH 2623</td>
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Semester Hours 14

Year 4

Fall

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<td>DNCE 2667</td>
<td>Musical Comedy</td>
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<tr>
<td>THTR 3701</td>
<td>Professional Preparation</td>
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Semester Hours 14

Spring

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Semester Hours 12

Total Semester Hours 120-122

Learning Outcomes

1. Demonstrate the ability to act, i.e., to project one’s self believably in work and action into imaginary circumstances in roles in a wide variety of styles and formats.
2. Demonstrate a flexible, strong, and controlled voice with trained breath support; appropriate vocal range and freedom from vocal and postural tension in rehearsal and performance; the student will also demonstrate the ability to project the voice effectively in theater spaces of varying sizes.
3. Demonstrate musicianship by learning accurate rhythm, pitch, phrasing, tempi, and appropriate vocal style that is consistent with performance practice in their vocal repertoire.
4. Demonstrate physical competence in dance and movement with a focus on ballet, tap, and jazz technique.
5. Demonstrate a knowledge and understanding of basic production elements, including stage make-up.
6. Demonstrate knowledge of musical theatre repertory, the history of its development and the relationship of this history to styles of performance
7. Demonstrate effective audition techniques

Bachelor of Fine Arts in Theatre

The Bachelor of Fine Arts in Theatre is designed to provide intensive training, preparing students for careers in the professional or academic theatre. Admission to this program is available by audition/interview only. Students admitted to this BFA program will combine a basic foundation of general studies with an extensive selection of performance-oriented coursework (acting, directing, design, and dance) and participation in the co-curricular production activities of the department. This degree may be earned in eight semesters if students average 16 hours per semester. Retention in the program is contingent upon an annual progress review presented by each student.

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<td>Writing 1 with Support</td>
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<td>ENGL 1551</td>
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<td>THTR 1561</td>
<td>Stagecraft</td>
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<td>THTR 2668</td>
<td>Acting 1: Fundamentals</td>
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<td>THTR 2661</td>
<td>Stage Management</td>
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<td>THTR 3761</td>
<td>Stage Makeup</td>
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<td>THTR 2667</td>
<td>Acting 2: Voice for the Actor</td>
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<td>THTR 3766</td>
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<td>THTR 3765</td>
<td>Lighting Design</td>
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<td>THTR 3769</td>
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<td>THTR 4891</td>
<td>Theatre History Before 1700</td>
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<td>THTR 3791</td>
<td>Rehearsal and Performance (taken 2 times)</td>
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<td>THTR 4860</td>
<td>Theatre History after 1700</td>
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<td>THTR 3764</td>
<td>History of Stage Costume</td>
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<td>THTR 3768</td>
<td>Script Analysis for Stage and Screen</td>
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<td>THTR 4898</td>
<td>Senior Project</td>
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<td>THTR 4863</td>
<td>Acting 3: Styles</td>
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<td>THTR 4870</td>
<td>Acting 4: Acting on Camera</td>
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<td>Jazz Dance 1</td>
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<td>DNCE 1572</td>
<td>Ballet 1</td>
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<tr>
<td>DNCE 1540</td>
<td>Modern Dance 1</td>
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</tr>
<tr>
<td>DNCE 1571</td>
<td>Tap Dance 1</td>
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<td>DNCE 1541</td>
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<td>KSS 1514</td>
<td>Fencing 1</td>
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<tr>
<td>KSS 1558</td>
<td>Physical Fitness for Life</td>
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<tr>
<td>KSS 1557</td>
<td>Weight Training</td>
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**Electives**
Select 12 s.h. of theatre or dance electives emphasizing either performance or design/technology.

**Total Semester Hours**
121-123

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<td>or Writing 1 with Support</td>
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<tr>
<td>YSU 1500</td>
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<td>or SS 1500</td>
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<td>Topics in Theatre</td>
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<td>Ballet 1</td>
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<td>DNCE 1571</td>
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**Semester Hours**
12-14

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<td>or Theatre History after 1700</td>
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**Semester Hours**
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<td>or THTR 3769</td>
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<tr>
<td>or THTR 3767</td>
<td>or Lighting Design</td>
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<tr>
<td>or THTR 3768</td>
<td>or Costume Design</td>
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<tr>
<td>THTR 3766</td>
<td>Stage Combat</td>
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<td>or THTR 3764</td>
<td>or History of Stage Costume</td>
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**Semester Hours**
14
Year 3

Fall

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<td>or Theatre History after 1700</td>
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<td>THTR 1563</td>
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<td>THTR 37XX</td>
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Semester Hours 16

Spring

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<td>or Lighting Design</td>
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<td>Acting 3: Styles</td>
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<td>or Directing 2</td>
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<td>THTR 37XX</td>
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Semester Hours 16

Year 4

Fall

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<tr>
<td>THTR Elective</td>
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<td>3</td>
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<tr>
<td>GEN ED Elective</td>
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<td>Arts and Humanities Elective</td>
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Semester Hours 16

Spring

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<td>THTR 4898</td>
<td>Senior Project</td>
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<td>THTR 3764</td>
<td>History of Stage Costume</td>
<td>3</td>
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<tr>
<td>or THTR 3766</td>
<td>or Stage Combat</td>
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<tr>
<td>THTR 4863</td>
<td>Acting 3: Styles</td>
<td>3</td>
</tr>
<tr>
<td>or THTR 5864</td>
<td>or Directing 2</td>
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<td>THTR or DNCE Elective</td>
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<td>THTR or DNCE Elective</td>
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Semester Hours 15

Total Semester Hours 121-123

Minor in Dance

To complete a minor in dance, a student must complete a minimum of 23 hours of coursework as described below:

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<td>DNCE 1573</td>
<td>Ballet 2</td>
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<tr>
<td>DNCE 2698</td>
<td>Survey of Dance</td>
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<tr>
<td>DNCE 4892</td>
<td>Pedagogy of Dance Technique</td>
<td>2-3</td>
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<tr>
<td>or DNCE 3767</td>
<td>or Choreography for Musical Theatre</td>
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<tr>
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<tr>
<td>DNCE 2606</td>
<td>Creative Dance for Children</td>
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<tr>
<td>DNCE 2680</td>
<td>Tap Dance 3</td>
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<tr>
<td>DNCE 3751</td>
<td>Modern Dance 3</td>
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<tr>
<td>DNCE 3770</td>
<td>Jazz Dance 3</td>
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<tr>
<td>DNCE 3781</td>
<td>Ballet 3</td>
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<td>DNCE 4871</td>
<td>Jazz Dance 4</td>
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<td>DNCE 4881</td>
<td>Ballet 4</td>
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</table>

Total Semester Hours 23

1 All dance minors are required to demonstrate proficiency at level 2 in modern, tap and jazz, and ballet technique. Level-one technique classes may be waived for students with more advanced technical proficiency.

Minor in Theatre

To complete a minor in Theater Studies, a student must take a minimum of 18 hours as described below:

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<td>Introduction to Theatre</td>
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<td>THTR 1561</td>
<td>Stagecraft</td>
<td>3</td>
</tr>
<tr>
<td>THTR 2668</td>
<td>Acting 1: Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>THTR 3768</td>
<td>Script Analysis for Stage and Screen</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following:</td>
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<tr>
<td>THTR 4891 or THTR 4860</td>
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Total Semester Hours 18

Minor in Film Studies

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<td>THTR 2690</td>
<td>The Art of Motion Pictures</td>
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<td>CMST 2650</td>
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<tr>
<td>ENGL 2665</td>
<td>Introduction to Film Study</td>
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<tr>
<td>THTR 3768</td>
<td>Script Analysis for Stage and Screen</td>
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<tr>
<td>ENGL 3748</td>
<td>Screenwriting</td>
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<td>or ENGL 3765</td>
<td>or Film Genres</td>
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Total Semester Hours 18

Minor in Puppetry for Non-Theatre Majors

The Puppetry Minor for Non-Theatre Majors provides a broad understanding of the field of puppetry in terms of puppet design, build, and manipulation, scriptwriting/adaptation, and puppet performance.

Faculty

Todd Dicken, MFA, Lecturer, is a full-time faculty member in the Department of Visual & Dramatic Arts
Minor in Puppetry for Theater Majors

The Puppetry Minor for Theatre Majors provides a broad understanding of the field of puppetry in terms of puppet design, build, and manipulation, script-writing/adaptation, and puppet performance. The Puppetry Minor for Theatre Majors pairs well with both the BA in Theatre Studies and the BFA in Theatre curricula.

Faculty

Todd Dicken, MFA, Lecturer is a full-time faculty member in the Department of Visual & Dramatic Arts

Katherine Garlick, MFA, Associate Professor is a full-time faculty member in the Department of Visual & Dramatic Arts

Theatre majors who wish to complete a minor in Puppetry must take a minimum of 12 semester hours as described below.

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<thead>
<tr>
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<tr>
<td>THTR 1563</td>
<td>Costume Construction and Craft</td>
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<td>THTR 2607</td>
<td>Introduction to Puppetry</td>
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<td>THTR 3707</td>
<td>Topics in Puppetry</td>
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<td>THTR 4899R</td>
<td>Topics in Theatre Props and Crafts</td>
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<td>THTR 4899G</td>
<td>Topics Neutral and Char Mask</td>
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<td>THTR 4899C</td>
<td>Topics in Theatre Prop Making</td>
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<td>THTR 4899B</td>
<td>Topics Theatre Scene Painting</td>
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Minor in Musical Theatre

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<td>VOIC 1500B</td>
<td>Voice</td>
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<td>VOIC 2600A</td>
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<td>VOIC 2600B</td>
<td>Voice</td>
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<td>Acting 1: Fundamentals</td>
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<td>DNCE 1570</td>
<td>Jazz Dance 1</td>
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<td>THTR 2664</td>
<td>Musical Theatre Studio</td>
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<td>THTR 3768</td>
<td>Script Analysis for Stage and Screen</td>
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<td>Total Semester Hours</td>
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Dana School of Music

Dr. Randall Goldberg, Director
regoldberg@ysu.edu
(330) 941-3636

Dana School of Music web page

Audition Information (http://www.ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/admission/)

Welcome to the Dana School of Music! Founded 150 years ago, Dana is one of the oldest institutions of its kind in the United States. Our talented and vibrant faculty and students are involved with more than 100 events annually, including performances in historic regional halls (including the DeYor Performing Arts Center (http://www.youngstownsymphony.com/) and Stambaugh Auditorium (http://www.stambaughauditorium.com/)), distinguished lecturers, guest artists, and research pursuits. Our many illustrious alumni may be found performing in orchestras, opera companies, prestigious military groups, and other touring ensembles; enshrined as Hall of Fame Songwriters and Grammy Award winners; and teaching in conservatories, universities, and primary and secondary schools throughout the US. More than 50 faculty and staff maintain a tradition of conservatory-style music training and musical excellence in an urban research university setting.

We are accredited by the National Association of Schools of Music and offer a comprehensive listing of undergraduate Bachelor of Music degree programs as well as Bachelor of Arts options that provide additional breadth of study. Graduate students may earn a Master of Music degree in performance, music education, jazz, history and literature, and theory and composition. This section of the YSU Bulletin, along with the accompanying curriculum pages, provides basic information about Dana's facilities, course offerings, and requirements for entrance and graduation. To learn more about our degree programs, faculty, students, facilities, entrance requirements, and scholarships, please visit our website (https://ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/) or contact the Dana School of Music directly at 330-941-3636. To schedule a personalized campus visit, contact the Cliffe College Coordinator of Admission and Recruitment at 330-941-3625. We would love to show you our school, hear about your interests, and become an important part of your future. We will look forward to seeing you soon!

Best wishes,
Randall Goldberg

Mission Statement

The Dana School of Music fosters a vibrant community of student and faculty musicians/scholars who work across broad yet interrelated areas of inquiry including performance, improvisation, education, composition, pedagogy, theory, history, technology, research, and the music industry. The Dana School of Music leads in the pursuit of musical excellence and the discovery, dissemination, and application of knowledge; encourages creativity and collaboration; and advocates for the importance of the arts in society.

The Dana School of Music

• Creates diverse educational experiences that develop ethical, intellectually curious students who advance the intellectual and cultural life of the university, regionally, nationally, and internationally through performances, recordings, research, teaching, and other public activities

• Offers undergraduate programs in performance, jazz performance, music education, composition, music theory, music history and literature,
and music recording as well as options in entrepreneurship, non-profit leadership, and video production.

- Offers graduate programs in performance, music education, jazz studies, conducting, music theory/composition, and music history and literature.

**Learning Outcomes**

**General Outcomes**

- Students will perform a public recital in their applied area.
- Students will analyze music, discriminate pitch, harmony, and rhythm, and perform harmonic progressions at the piano.
- Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.
- Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.

**Additional Outcomes for Specific Programs**

- BM – Composition: Students will compose music in a variety of genres.
- BM – Performance, Jazz Track: Students will perform, improvise, compose, and arrange jazz music.
- BM – Emphasis in Music Recording: Students will record, edit, and produce music.
- BM – Music Education: Students will demonstrate effective planning, teaching, and assessment appropriate to K-12 students in music settings.

**Accreditation**

The Dana School of Music is accredited by the National Association of Schools of Music (NASM) (https://nasmarts-accredit.org/).

- Date of Initial Accreditation: 9/1/1947
- Year of Most Recent Comprehensive Review: 2010
- Academic Year of Next Scheduled Comprehensive Review: 2020-2021

**Programs**

The curriculum may be divided into seven components:

- composition
- music education
- performance
- music recording
- liberal arts

**BACHELOR OF MUSIC**

The Bachelor of Music degree may be earned in the following majors:

- composition
- jazz
- music education
- music recording emphasis
- performance

**BACHELOR OF MUSIC IN EDUCATION**

The music education program prepares students for licensure as music teachers in the public schools and also provides other courses necessary for general elementary teaching certificates. Through excellent collaboration between the University and area school districts and teachers, music education students have a variety of opportunities for observation and student teaching.

For further information, please see the Cliffe College of Creative Arts and Communication advisement page (http://www.ysu.edu/academics/college-creative-arts-and-communication/ccac-advisement/).

**Facilities**

The Dana School is one of four departmental units in the Cliffe College of Creative Arts and Communication. Housed in Bliss Hall, the School includes practice rooms, faculty studios, classrooms, rehearsal facilities, and the Bliss Recital Hall, which has a seating capacity of 237. Our faculty and students also perform in several regional halls, including Stambaugh Auditorium (http://www.stambaughauditorium.com/) and the DeYor Performing Arts Center (http://www.youngstownsymphony.com/special-events/).

**Equipment**

Equipment includes:

- 92 Steinway pianos
- 30 MIDI pianos
- harpsichord by Dowd
- two Schlicker pipe organs
- three Flentrop pipe organs
- consort of Renaissance wind and brass instruments
- a comprehensive collection of standard band and orchestral instruments

Many University-owned instruments are available for use by students enrolled in related courses. Although there is no charge for use of these instruments, failure to comply with check-in deadlines will result in a $5.00-a-day fine or replacement for each instrument.

**MIDI Classroom**

The Dana School of Music provides students with the opportunity to utilize state-of-the-art technology; music computer software and hardware includes advanced music notation, music sequencing (composition/arranging), and automatic accompaniment applications. The classroom features Macintosh workstations, each fully MIDI-equipped.

**Music Recording Studio**

The Dana Recording Studio features a 12 core Intel Mac tower running Avid Pro-Tools 11, MOTU Digital Performer 7.24, and Apple Logic DAWs software. We have Universal Audio Apollo interfaces and a Tascam DM4800 fully automated mix surface that also serves as an additional audio interface. The studio utilizes outboard Kurzweil and Roland keyboards, controllers, and synths, as well as Reason 7 and the Native Instruments Komplete 10 software package. We feature Shure Large Diaphragm Condenser mics, Audio Technica SDC mics, Shure Beta 58s and 57s; our mic locker also includes a matched pair of Cascade Fathead II ribbon microphones. We use Genelec 1031 monitoring system with 7050b Sub.

**Libraries**

The School’s extensive libraries of band, choral, and orchestral music represent musical periods from the Middle Ages to the present. Maag Library (http://maag.ysu.edu/) contains books, an extensive collection of printed music, recordings, research journals, and additional technology.

**Scholarships and Loans**

The Dana School of Music offers a wide range of scholarships, which are awarded after competitive auditions on the basis of talent and academic achievement. For information about additional scholarships, please visit...
the YSU Scholarship Search (http://cfweb.cc.ysu.edu/finaid/scholar/est_scholar.cfm) page.

Musical Activities, Ensembles
Each year, Dana School of Music faculty and students perform over 100 concerts in the region, across the United States, and internationally. Recent student performances have included Wind Ensemble concerts in Carnegie Hall and at the Ohio Music Education Association Annual Professional Conference; Stroud All-Ohio Classical Guitar Competition; Jazz Ensembles at BLU Jazz; Percussion Ensemble performances at the Ohio Music Education Association Annual Professional Conference; and Dana Chorale concerts in South Korea. Faculty concerts have featured Dr. Kivie Cahn-Lipman with ACRONYM (http://www.acronymensembles.com/home/), Dr. Kent Englehardt with the East Central Jazz Educators All Star Big Band (https://www.facebook.com/ECJEAllStarBigBand/), Drs. Francois Fowler and Kathryn Umble with Duo Allant (http://www.duoallant.com/home.html); Dr. Misook Yun in Hungary (http://www.summermusicstudyinhungary.com/copy-of-faculty/); and Dr. Cicilia Yudha with the Duke University Symphony Orchestra (https://www.ciciliayudha.com/2017/).

The School has numerous performing ensembles:
- Barbershop Chorus
- Brass, Percussion, String, and Woodwind Ensembles
- Chamber Music
- Chamber Orchestra
- Composer Ensemble
- Concert Band
- Dana Chorale
- Dana Symphony Orchestra
- Early Music Ensemble
- Gospel Choir
- Jazz Combos
- Jazz Ensemble
- Marching Band
- Opera Workshop
- Wind Ensemble
- University Chorus

Student Activities
Music students may participate in all Youngstown State University student activities. Of special interest to music students are the student chapters of:
- Dana Clarinet Society
- Dana Double Reed Society
- Dana Guitar Association
- Dana Horn Society
- Dana League of Composers
- Dana Piano Guild
- Dana Vocal Society
- Ohio Collegiate Music Educators Association
- Phi Mu Alpha Sinfonia
- Saxophone Society
- Youngstown Percussion Collective
- YSU Flute Society
- YSU Jazz Society

Fees
See the Fees and Expenses (p. 57) section of the Undergraduate Catalog.

Application and Admission Examinations
For admission to the Dana School of Music, prospective students must first be admitted to Youngstown State University. For information, please visit the YSU Admissions (https://ysu.edu/admissions/apply-to-ysu/) webpage or call our Admissions Office toll free (877) 468-6978 (877-GO-TO-YSU) or local (330) 941-2000.

Applicants are required to pass entrance auditions in their performance area and to take placement examinations in music theory and piano. Auditions (http://www.ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/admission/) and examinations are on announced dates, typically during the spring of prospective students’ senior year in high school.

Admission to Courses for the Degree of Bachelor of Music
The applicant’s high school courses should include the preparatory courses specified under High School Preparation (https://ysu.edu/admissions/apply-to-ysu/high-school-checklist/) of this Catalog.

Musical Proficiency
Before entering YSU and the Dana School, it is expected that prospective students will be proficient in one or more areas of applied music (i.e., performance, music recording, composition), as certain standards in technique and repertory must be met. Qualifications are determined by the placement tests mentioned above. Students who do not demonstrate the proficiency required to enroll in major-level lessons must enroll in the relevant minor-level lessons until they are ready to begin major-level lessons.

The Dana School of Music theory placement examination is used to determine theory proficiency. Those scoring less than the 80th percentile will take MUTC 1531N Music Theory 1 Intensive, while those scoring above the 80th percentile will enroll in MUTC 1531 Music Theory 1.

Prospective composition majors must present evidence of ability to handle the materials of music by placing at or above the 80th percentile on the Dana School of Music theory entrance examination. Proficiency on a musical instrument sufficient for admission to the freshman level of applied music must be demonstrated in an audition for the appropriate faculty.

Admission from Other Institutions
The general policy is stated on the YSU Admissions Transfer Students website (https://ysu.edu/admissions/apply-to-ysu/transfer-students/). Advanced standing in musical performance and in music theory is granted tentatively but must be validated by an audition and appropriate examinations (e.g., theory).

Requirements for the Degree Bachelor of Music
It is the student's responsibility to insure that all graduation requirements for the degree sought are satisfied. If students average 16-18 hours per semester, these degrees may be earned in eight semesters. For the Bachelor of Music degree, these consist of:

PRE-COLLEGE OR PREPARATORY STUDY, OF TWO KINDS
1. Academic. These courses are normally taken in high school. All deficiencies must be satisfied prior to completing 60 semester hours at YSU.
2. Musical. A student lacking suitable proficiency in applied studies must develop it before undertaking the required college-level music courses.

UNIVERSITY REQUIREMENTS
Non-music courses and other requirements to be completed are listed in the Curriculum Sheet (https://catalog.ysu.edu/undergraduate/colleges-programs/college-creative-arts-communication/school-music/).


#programsofstudystext) of each degree program. An overview of YSU’s General Education program and lists of courses by domain may be found here (https://catalog.ysu.edu/undergraduate/general-information/academic-policies-procedures/general-education-requirements/#text).

## DEGREE REQUIREMENTS

All music majors must attend 36 Convocations and 30 Dana School of Music concerts or recitals. During the semester, Convocation meets every Friday (11:00-11:50) in Bliss Recital Hall. Attendance at 36 recitals is recommended in the first two years and required for degree completion. **Attendance at 30 recitals is mandatory in the first two years.** Students are asked to save printed programs from any recitals or concerts they attend as evidence of their presence.

### Curricular

#### FOR ALL MUSIC MAJORS

Acceptance into a performance area is contingent upon an audition (http://www.ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/admission/). Students who do not qualify for major-level lessons (e.g., PIAN 1501, FLUT 1501) may take the relevant minor-level lessons (e.g., PIAN 1500A, FLUT 1500A) until the deficiency is corrected.

After an examination given by members of the faculty, advanced standing in performance may be granted tentatively (e.g., for transfer students). The final classification is made at the end of the first semester of resident study.

Enrollment in private lessons is contingent upon the approval of the Director of the Dana School of Music, with priority given to full-time music majors and music minors participating in major ensembles.

### TEACHER ASSIGNMENT FOR APPLIED LESSONS

Assignment of students to teachers for applied music lessons is made by the area coordinator. Requests for change of teacher should be addressed to the coordinator in writing. To the extent possible, a student’s choice of applied teacher will be taken into consideration but final assignment resides with the Director of the School of Music.

### LESSONS

Students registered for 4 s.h. courses receive 50-minutes of individual instruction and one 50-minute seminar weekly; they are required to practice three hours daily. Students registered for 2 and 3 s.h. courses receive 50-minutes of individual instruction and one 50-minute seminar weekly; they are required to practice two hours daily. Students registered for minor-level lessons receive individual instruction for 30 minutes each week and are required to practice one hour daily.

If a student misses more than three lessons in any semester, no credit will be given in applied lessons. Lessons missed due to legal holidays or school closings will not be rescheduled. In the case of prolonged student illness, the lessons may be rescheduled at the discretion of the applied teacher.

### RECITALS

Recognizing that performing for an audience plays a vital role in musical and artistic growth, the Dana School offers its students many opportunities to perform in public as a way to foster that development. **Attendance at 30 recitals is mandatory in the first two years.**

### CONVOCATION

The Assistant Director of the School arranges weekly programs of lectures and student and faculty performances. **Attendance at 36 convocations is recommended in the first two years and required for degree completion.**

### YOUNG ARTIST COMPETITION

An annual concert by the Dana Symphony Orchestra features student soloists chosen by competition.

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### DANA YOUNG SCHOLARS AWARD

Dana Young Scholars Award celebrates student research in music. The competition is open to all graduate students as well as undergraduate students, at the sophomore level or higher, who are pursuing a music degree in the Dana School of Music.

### DEGREE AND NON-DEGREE RECITALS

In partial fulfillment of graduation requirements, each candidate for the Bachelor of Music degree must present a senior recital. **Performance majors** must present a half-hour recital their junior year and a one-hour recital their senior year. **Composition majors** must present 75 minutes of music, and **music education majors** a half-hour recital of music. Outstanding students may present non-degree recitals, subject to certain conditions; for more information, students should talk with their studio faculty. Student recitals should include a varied and balanced repertory, preparation of a printed program and program notes, and consideration of performance aspects such as attire, stage deportment, and marketing to an audience. **No later than 21 days prior to the projected recital date,** a recital hearing will be held. During that time, a student who plans to present a degree recital must be prepared to perform the recital program for faculty approval.

### EXAMINATIONS

During examination week of each term, performance faculty members convene to determine if students may proceed to the next higher proficiency level of applied study. Frequency of required examinations differs among the various performance areas (for specifics, consult the syllabus of the performance area concerned). Transfer students are examined at the end of their first or second term of study, as established by the individual performance area. Students presenting an approved degree recital may be granted a waiver of examination for the term of the recital. Students who have earned a grade of C or lower, or with a grade of PR, may be retained in the same proficiency level. Students who fail to meet the standards of the examining faculty may be required to reduce the number of credits for which they register in subsequent terms or withdraw completely from the course sequence.

To meet certain needs, each applied area (e.g., keyboard, brass, strings) may vary the above requirements. For details, consult with the appropriate area coordinator.

For more information, visit the Dana School of Music (http://www.ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/).

### Ensembles

There are two types of ensembles in the Dana School of Music:

- **large ensembles**
- **chamber ensembles**

Large ensembles rehearse a total of three or four hours per week, and chamber ensembles rehearse for one to two hours per week.

### LARGE ENSEMBLES

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<td>Dana Chorale</td>
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<td>MUEN 0003</td>
<td>Dana Madrigal</td>
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<tr>
<td>MUEN 0004</td>
<td>University Chorus</td>
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<td>MUEN 0005</td>
<td>Concert Band</td>
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<td>MUEN 0006</td>
<td>Marching Band</td>
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<tr>
<td>MUEN 0007</td>
<td>Wind Ensemble</td>
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<td>MUEN 0008</td>
<td>Symphony Orchestra</td>
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<td>MUEN 0023</td>
<td>Jazz Ensemble</td>
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<tr>
<td>MUEN 0040</td>
<td>University Band (spring only)</td>
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**CHAMBER ENSEMBLES**

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<td>MUEN 0010</td>
<td>String Ensemble</td>
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<td>MUEN 0012</td>
<td>Dana Ensemble</td>
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<td>MUEN 0013</td>
<td>Contemporary Ensemble</td>
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<td>MUEN 0014</td>
<td>Women’s Chorus</td>
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<td>MUEN 0016</td>
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<td>MUEN 0018</td>
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<td>MUEN 0019</td>
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<td>Composer’s Ensemble</td>
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<td>MUEN 0026</td>
<td>Chamber Orchestra</td>
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<td>Chamber Winds</td>
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<td>MUEN 0030</td>
<td>Jazz Combo</td>
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<td>MUEN 0031</td>
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<td>MUEN 0035</td>
<td>Saxophone Quartet</td>
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<td>MUEN 0041</td>
<td>Basketball Pep Band (spring only)</td>
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<tr>
<td>MUEN 0051</td>
<td>Piano Chamber</td>
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Ensemble courses are open to all students in the University who are qualified for them and any ensemble course may be repeated any number of semesters.

Requirements in addition to the above but unique to each ensemble:

- Dana Opera Ensemble 0012 culminates in the production of one or more operas. Credit is given in accordance with the amount of work chosen by the student, ranging from 1-3 s.h.
- Woodwind and brass ensembles may include quartets, quintets, and various other combinations of instruments. 1 s.h. each.

For additional information, visit the Dana School of Music (http://www.ysu.edu/academics/college-creative-arts-and-communication/dana-school-of-music/).

**Dana School of Music**

Chair

Joseph W. Carucci, D.M.A., Professor, Chair

Professor

Ewelina Boczkowska, Ph.D., Professor

Michael S. Butler, Ph.D., Associate Professor

Kivie Cahn-Lipman, D.M.A., Assistant Professor

Kent J. Engelhardt, Ph.D., Professor

Francois P. Fowler, D.M., Professor

Randall E. Goldberg, Ph.D., Associate Professor

Daniel Keown, Ph.D., Associate Professor

Christopher Krummel, D.M.A., Professor

Hae-Jong Lee, D.M.A., Associate Professor

J. Paul Louth, Ph.D., Associate Professor

Andrew Mitchell, D.M.A., Assistant Professor

David S. Morgan, D.M.A., Professor

Caroline Oltmanns, D.M.A., Professor

Phyllis Paul, Ph.D., Professor

Steven M. Reale, Ph.D., Professor

Jena Root, Ph.D., Professor

Glenn Schaft, D.M.A., Professor

James C. Umble, D.M.A., Professor

Kathryn T. Umble, D.M.A., Professor

Alice M. Wang, D.M.A., Professor

Cicilia Yudha, D.M.A., Associate Professor

Misook Yun, D.M.A., Professor

Lecturer

Wendy S. Case, D.M.A., Lecturer

Maria Fenty Denison, D.M.A., Lecturer

Kate E. Ferguson, Ph.D., Lecturer

Sean Yancer, B.M.E., Lecturer

**Majors**

- Bachelor of Arts in Music (p. 308)
- Bachelor of Music in Composition (p. 310)
- Bachelor of Music in Education, Instrumental Emphasis (p. 312)
- Bachelor of Music in Education, Instrumental Jazz Emphasis (p. 314)
- Bachelor of Music in Education, Voice Emphasis (p. 316)
- Bachelor of Music with an Emphasis in Music Recording (p. 318)
- Bachelor of Music in Performance, Instrumental Emphasis (p. 320)
- Bachelor of Music in Performance, Jazz Emphasis (p. 321)
- Bachelor of Music in Performance, Piano Emphasis (p. 323)
- Bachelor of Music in Performance, Voice Emphasis (p. 325)

**Minors**

- Music Minor (p. 326)

**Music Applied Classes**

MUAC 1521  **Keyboard Musicianship for Non-Music Majors 1**  1 s.h.

Intended for the student with no previous music studies, this first-semester course develops fundamental piano playing, through the study of music fundamentals and repertoire.

MUAC 1522  **Keyboard Musicianship for Non Music Majors 2**  1 s.h.

Continuation of MUAC 1521. Intended for the student with no previous music studies, this second-semester course develops fundamental piano playing, through the study of music fundamentals and repertoire.

**Prereq.**: MUAC 1521 or permission of instructor.

MUAC 1556  **Singer's Diction: English/Italian**  1 s.h.

Application of the principles of Lyric diction; utilization of the International Phonetic Alphabet in developing and reading phonetics transcriptions of English, Italian song texts.
MUAC 1557  Singer's Diction: German  1 s.h.
Application of the principles of Lyric diction; utilization of the International Phonetic Alphabet in developing and reading phonetics transcriptions of German song texts.

MUAC 1558  Singer's Diction: French  1 s.h.
Application of the principles of Lyric diction; utilization of the International Phonetic Alphabet in developing and reading phonetics transcriptions of French song texts.

MUAC 1581  Class Piano 1  1 s.h.
Intended for and required of all non-keyboard music majors, the first-semester course builds functional skills at the piano. Students develop techniques to perform all major scales and arpeggios, sight reading, triads and inversion, primary chords, harmonization of popular and/or folk tunes, and repertoire with both hands.
Coreq.: Major-level applied lessons (1501 or higher) or permission of coordinator.

MUAC 1582  Class Piano 2  1 s.h.
Continuation of MUAC 1581 and required of all non-keyboard music majors. Students hone piano techniques by performing major and minor scales and arpeggios, score analysis, transposition, harmonization of popular and/or folk tunes with extended chords, and solo/ensemble repertoire with both hands.
Prereq.: grade of "C" or better in MUAC 1581.
Coreq.: Major-level applied lessons (1501 or higher), placement test, or permission of coordinator.

MUAC 2667  Jazz Improvisation 1  3 s.h.
Jazz techniques with emphasis on analysis of harmonic progressions, form, style, and performance requirements of the jazz idiom.
Prereq.: MUTC 1531 or MUTC 1531N or permission of the instructor.

MUAC 2668  Jazz Improvisation 2  3 s.h.
Jazz techniques with emphasis on analysis of harmonic progressions, form, style, and performance requirements of the jazz idiom.
Prereq.: MUTC 1531 or MUTC 1531N or permission of the instructor.

MUAC 2681  Class Piano 3  1 s.h.
Continuation of MUAC 1581-1582 and required of all non-keyboard music majors. Students perform all technical requirements with fluidity and early intermediate repertoire with appropriate musical style. Emphasis on two- to three-part score reading involving transpositions, harmonization with secondary dominant chords and various accompanying patterns.
Prereq.: grade of "C" or better in MUAC 1582.
Coreq.: Major-level applied lessons (1501 or higher), placement test, or permission of coordinator.

MUAC 2682  Class Piano 4  1 s.h.
Final class piano required of all non-keyboard music majors that culminates in the Piano Proficiency Exam. The course emphasizes solo repertoire (including a patriotic selection for Music Education and Voice majors), three- and four-part score reading excerpts of choral, mixed-instruments repertoire, advanced accompanying, and introduction to piano pedagogy. 1 s.h.
Prereq.: grade of "C" or better in MUAC 2681.
Coreq.: Major-level applied lessons (1501 or higher), placement test, or permission of coordinator.

MUAC 2691  Professional Piano Skills 1  1 s.h.
The course consists of a combination of piano skills in addition to vocal and instrumental accompanying. These may include transposition, sight reading, improvisation, creation of piano accompaniment, reading of lead-sheets and numbered bass, playing basic piano accompaniments in a number of styles including gospel, country, classical, new age, and/or the knowledge of and ability to play excerpts of the major classical works for piano for medley play and demonstration in a teaching environment.

MUAC 2692  Professional Piano Skills 2  1 s.h.
The course consists of a combination of piano skills in addition to vocal and instrumental accompanying. These may include transposition, sight reading, improvisation, creation of piano accompaniment, reading of lead-sheets and numbered bass, playing basic piano accompaniments in a number of styles including gospel, country, classical, new age, and/or the knowledge of and ability to play excerpts of the major classical works for piano for medley play and demonstration in a teaching environment.

MUAC 2693  Professional Piano Skills 3  1 s.h.
The course consists of a combination of piano skills in addition to vocal and instrumental accompanying. These may include transposition, sight reading, improvisation, creation of piano accompaniment, reading of lead-sheets and numbered bass, playing basic piano accompaniments in a number of styles including gospel, country, classical, new age, and/or the knowledge of and ability to play excerpts of the major classical works for piano for medley play and demonstration in a teaching environment.

MUAC 2694  Professional Piano Skills 4  1 s.h.
The course consists of a combination of piano skills in addition to vocal and instrumental accompanying. These may include transposition, sight reading, improvisation, creation of piano accompaniment, reading of lead-sheets and numbered bass, playing basic piano accompaniments in a number of styles including gospel, country, classical, new age, and/or the knowledge of and ability to play excerpts of the major classical works for piano for medley play and demonstration in a teaching environment.

MUAC 3732  Brass Methods  1 s.h.
Designed to prepare students for instrumental music teaching relative to brass instruments. Emphasis on tone production, the harmonic series, technique development, ranges and transposition, pedagogy, troubleshooting, and arranging techniques for brass instruments. Meets 2 hours per week.
Prereq.: MUTC 1531 or MUTC 1531N or permission of the instructor.

MUAC 3733  Woodwind Methods  1 s.h.
Designed to prepare students for instrumental music teaching relative to woodwind instruments (flute, clarinet, oboe, bassoon, saxophone). Components include concepts of tone production, embouchure, articulation, and technique. Study material stresses common features as well as differences.
Prereq.: MUTC 1531 or MUTC 1531N or permission of instructor.

MUAC 3734  String Methods  1 s.h.
Designed to prepare students for instrumental music teaching relative to string instruments (violin, viola, cello, string bass). Components include concepts of tone production, bowing, fingering as well as appropriate evaluation of pedagogy. Study material stresses common features as well as differences.
Prereq.: MUTC 1531 or MUTC 1531N or permission of the instructor.

MUAC 3735  Jazz Methods  1 s.h.
Designed to prepare students for jazz teaching relative to instruments and voice. Components include fundamental techniques and approaches for directing small and large jazz ensembles, teaching of basic improvisation skills, rhythms section/soloist interaction, and stylistic interpretation. Students will demonstrate basic performance proficiencies in jazz on their applied instruments and/or voices. Meets 2 hours per week.
Prereq.: MUTC 1531 or MUTC 1531N or permission of the instructor.

MUAC 3755  Guitar Methods  1 s.h.
Study of the guitar at the beginning level to explore techniques and approaches appropriate to school music instruction. A minimum level of performance is required.
Prereq.: MUTC 1531 or MUTC 1531N or permission of instructor.

MUAC 3759  Voice Methods  1 s.h.
A study of voice at the beginning level to explore techniques and approaches appropriate to school music instruction. A minimum level of performance is required. May be repeated.
Prereq.: EDFN 1501.
MUAC 3763  Percussion Methods  1 s.h.
Study of snare drum, marching percussion, timpani, jazz drum set, keyboard, Latin percussion, and orchestral accessories. Topics include instrument selection and maintenance techniques as well as pedagogical approaches. Designed to prepare students for instrumental music teaching careers.
Prereq.: MUTC 1531 or MUTC 1531N or permission of the instructor.

MUAC 3781  Jazz Class Piano 1  1 s.h.
(For keyboard and non-keyboard majors). Class instruction and keyboard experience in jazz chordal voicing techniques including shell voicings and open voicings. Techniques will be applied to blues and jazz repertoire including performance of melodies, rhythmic accompaniments, and improvised comping. Classes must be taken in sequence. Meets two days per week.
Prereq.: grade of “B” or better in MUAC 1582 or permission of instructor.

MUAC 3782  Jazz Class Piano 2  1 s.h.
For keyboard and non-keyboard majors). Class instruction and keyboard experience in jazz chordal voicing techniques including a study of open voicings using altered dominants and quartal voicings. Techniques will be applied to blues and jazz repertoire including performance of melodies, rhythmic accompaniments, and improvised comping. Meets two days per week.
Prereq.: MUAC 3781, or permission of instructor.

MUAC 4867  Jazz Improvisation 3  3 s.h.
Advanced jazz techniques with emphasis on analysis of harmonic progressions, form, style, and performance requirements of the jazz idiom. Courses must be taken in sequence.
Prereq.: MUAC 2668.

MUAC 4868  Jazz Improvisation 4  3 s.h.
Advanced jazz techniques with emphasis on analysis of harmonic progressions, form, style, and performance requirements of the jazz idiom. Courses must be taken in sequence.
Prereq.: MUAC 2668.

Music Conducting
MUCO 3715  Choral and Instrumental Conducting  3 s.h.
Designed to develop skills, hone competencies, and share conceptual knowledge relative to the art and pedagogy of conducting. Students develop skills in conducting, score analysis and preparation, rehearsal techniques, and error detection, and create artistic interpretation with peer-lab ensemble.
Prereq.: MUTC 2632.

Music Education
MUED 2611  Computer Applications in Music Education  2 s.h.
An overview of computer applications as they relate to the music educator. Specific hardware and software in music education will be discussed. Project topics: administrative software, music notation, MIDI, arranging and improvisation with computers, and designing multimedia. Meets two hours per week.
Prereq.: MUTC 1532 or MUTC 1532N.

MUED 2622  Foundations of Music Education  2 s.h.
Introduction to the principles and current practices of teaching music in K-12 settings. Strategies and approaches to teaching music of various genres with emphasis on the unique challenges of public school music instruction in the 21st Century. Includes 15 hours of exploratory fieldwork. Topics include assessment, curricular design, student engagement, classroom management, and multiculturalism.

MUED 3722  Music in Early Childhood  3 s.h.
Fundamental skills, repertoire, materials, and techniques for teaching music to pre-kindergarten through third grade children. For non-music majors.
Prereq.: CHFM 2633.

MUED 4821  Instrumental Music Education  2 s.h.
Materials, methods and literature for teaching elementary, middle school, and high school instrumental music programs. Emphasis on curriculum design, pedagogy, orchestration/arranging techniques, and learning theories related to jazz, concert, marching band, and orchestra. Requires 5 hours of field experience.
Prereq.: MUED 2622 and upper-division status in the College of Education.

MUED 4822  Teaching Choral Music  2 s.h.
Materials, methods and literature for school vocal ensembles. Additional emphasis is on vocal pedagogy, curriculum design, score study, adolescent voice, vocal literacy, arranging techniques, vocal improvisation, programming, designing and implementing choreography in vocal ensembles, and current issues in vocal music education. Requires 5 hours of field experience.
Prereq.: MUED 2622 and upper division status in the college of education.

MUED 4823  Music Teaching in Early Childhood (Pre K-3)  2 s.h.
Course emphasizes strategies, curriculum development, materials, classroom management, and developmentally appropriate practices for teaching diverse populations of pre K through third grade students. Candidates design and implement lessons aligned to state standards, based on established methods (Orff, Kodály, Dalcroze) in simulated and authentic settings. Requires 10 hours of field experience.
Prereq.: Upper division status in the college of education.

MUED 4824  Music Teaching in the Middle School  2 s.h.
Music materials and methods of instruction in middle schools with emphasis on understanding the physiological and psychological development of early adolescents in the context of general music classes. Course content includes managing the learning environment, motivating students, developing music curricula, planning musical experiences and assessing musical behaviors. Requires 12 hours of field experience.
Prereq.: MUED 4821 or MUED 4822 or concurrent enrollment, and upper division status in the college of education.

MUED 4825  Music Teaching in the High School  2 s.h.
Methods of organizing, administrating, teaching, and conducting music in the high schools; instruction methods, curriculum, technology, scheduling, philosophy, classroom management, and applying learning theories and research to practice. Special focus on designing and implementing standards-based music objectives in both instrumental and vocal rehearsal settings. Requires 10 hours of field experience.
Prereq.: Upper-division status in the College of Education and either MUED 4821 or MUED 4822, plus concurrent enrollment in or completion of MUCO 3715.

MUED 4842A  Student Teaching Seminar for Music Education  2 s.h.
Seminar topics are based on research and theory related to music pedagogy, classroom management, cultural bias, academic language, differentiation, collaboration, and reflection. Examination of OSTP standards, NASM standards and professional ethics.
Prereq.: Passage of OAE Music Content Exam & APK, BCI/FBI background check, Upper Division status in the CCCAC, completion of all music program requirements (including graduation recital) except student teaching.
Coreq.: MUED 4844.

MUED 4844  Supervised Student Teaching: Music (K-12)  10 s.h.
Sixteen weeks supervised student teaching experience in K-12 music settings.
Prereq.: Passage of OAE Music Content Exam and APK, BCI/FBI background check, CCCAC Upper Division Status, completion of all other requirements in the program including graduation recital.
Coreq.: MUED 4842A.

MUED 5814  Selected Topics in Music Education  2 s.h.
Course title will be listed each semester in the Schedule of Classes. May be repeated for credit with different topics.
Prereq.: MUED 4823 or MUED 4825.

MUED 5841  Music Workshop  1-3 s.h.
For students and teachers in service; topics may vary from year to year. Specific topics are announced each time the workshop is offered. May be repeated with different topic.
MUED 5858  Piano Pedagogy  3 s.h.
Methods and materials involved in teaching piano in private and classroom settings. Fundamentals of technique as well as repertoire. Supervised practice teaching.
Prereq.: Two years of applied keyboard.

MUED 5880  Vocal Pedagogy  1 s.h.
A comparative study of physiological and psychological approaches to voice instruction and their application to private and class instruction.
Prereq.: Two years of applied voice classes.

Music Ensembles

MUEN 0002  Dana Chorale  1 s.h.
Dana Chorale.

MUEN 0003  Dana Madrigal  1 s.h.
Dana Madrigal.

MUEN 0004  University Chorus  1 s.h.
An entry-level ensemble designed for music majors and non-music students alike. Students are placed within the ensemble after an informal hearing with the conductor. Each singer must be devoted to producing their highest quality of performance through both individual study, and group rehearsals, of the music being prepared. Study, rehearsals (tutti, individual, and sectional), memorization and performances in public comprise the course of study.

MUEN 0005  Concert Band  1 s.h.
Concert Band.

MUEN 0006  Marching Band  1 s.h.
Marching Band.

MUEN 0007  Wind Ensemble  1 s.h.
Wind Ensemble.

MUEN 0008  Symphony Orchestra  1 s.h.
Symphony Orchestra.

MUEN 0009  Percussion Ensemble  1 s.h.
Percussion Ensemble.

MUEN 0010  String Ensemble  1 s.h.
String Ensemble.

MUEN 0011  Men's Chorus  1 s.h.
Men's Chorus.

MUEN 0012  Dana Opera Ensemble  1 s.h.
Opera Ensemble.
Prereq.: By audition and by permission of instructor and voice teacher only.

MUEN 0013  Contemporary Ensemble  1 s.h.
Contemporary Ensemble.

MUEN 0014  Women's Chorus  1 s.h.
Women's Chorus.

MUEN 0015  Early Music Ensemble  1 s.h.
Early Music Ensemble.

MUEN 0016  Woodwind Ensemble  1 s.h.
Woodwind Ensemble.

MUEN 0018  Horn Choir  1 s.h.
Horn Choir.

MUEN 0019  Trombone Ensemble  1 s.h.
Trombone Ensemble.

MUEN 0020  Tuba Ensemble  1 s.h.
Tuba Ensemble.

MUEN 0022  Trumpet Ensemble  1 s.h.
Trumpet Ensemble.

MUEN 0023  Jazz Ensemble  1 s.h.
Jazz Ensemble.

MUEN 0024  Composer's Ensemble  1 s.h.
Composer's Ensemble.

MUEN 0025  Gospel Choir  1 s.h.
A choral music performance group whose repertoire focuses on African American Gospel music and the culture in which it was created. Musical styles will encompass Spirituals through Contemporary Gospel. Meets 2 hours per week. Open to all YSU students.

MUEN 0026  Chamber Orchestra  1 s.h.
Chamber Orchestra.

MUEN 0027  Musical Theatre Ensemble  1 s.h.
Ensemble experience in staged musical productions including performance and pedagogy in ensemble precision, rhythm section techniques, and musical style.
Prereq.: Audition.

MUEN 0028  Chamber Winds  1 s.h.
Chamber Winds.

MUEN 0029  Guitar Ensemble  1 s.h.
Guitar Ensemble.

MUEN 0030  Jazz Combo  1 s.h.
Jazz Combo.

MUEN 0031  Chamber Music  1 s.h.
Mixed chamber music groups may be initiated by students and, pending final approval, run under this course code. Groups will be regularly coached by a faculty member and will also rehearse independently. Each member of the group must be prepared for rehearsals and coachings, through individual practice of his or her part and through score study. This course may fulfill in part the chamber ensemble requirement for music majors. "Mixed chamber" will be defined as any small, non-conducted group beyond those specific groups already listed in the undergraduate course catalogue. Such groups will typically be comprised of representatives of different instrument families (brass quartet or woodwind quintet, string trios, etc.), and occasionally comprised of different instruments within the same family, such as saxophone quartet. The course will be optional for vocal students. Vocal students taking the course must work collaboratively with piano students and/or other instrumental or mixed voice students.
Prereq.: Permission of the School of Music Chair/Chamber Music Coordinator; May be repeated for credit.
Coreq.: Major-applied lessons.

MUEN 0035  Saxophone Quartet  1 s.h.
Saxophone Quartet.

MUEN 0040  University Band  1 s.h.
University Band.

MUEN 0041  Basketball Pep Band  1 s.h.
Basketball Pep Band.

MUEN 0044  Barbershop Singers  1 s.h.
An a cappella vocal chamber ensemble designed for music majors, minors and non-music students. Students are placed within the ensemble after an informal hearing with the conductor. Each singer must be devoted to producing his/her highest quality of performance through individual study, quartet rehearsals and group rehearsals of the music being prepared. Study, rehearsals (tutti, individual, and quartet), memorization and performances in public comprise the course of study.

MUEN 0051  Piano Chamber  1 s.h.
Piano Chamber.

Music History and Literature

MUHL 2616  Survey of Jazz  3 s.h.
A historical survey of the origins, influences, and stylistic features of jazz from its beginnings to the present, with emphasis on performers, compositions, and innovations.
Gen Ed: Arts and Humanities.
MUHL 2617 Film Music 3 s.h.
A historical survey of the use of music in the motion picture. Examination of different styles in works by major composers.
Gen Ed: Arts and Humanities.

MUHL 2618 Rock n' Roll to Rock 3 s.h.
A historical survey of the evolution of rock n' roll into rock with emphasis on the interrelationships of the music and social and political influences and the interaction of rock with other musical styles.
Gen Ed: Arts and Humanities.

MUHL 2619 Music of Non-Western Societies 3 s.h.
A historical survey of music as it relates to the different cultures, with emphasis on the development of instruments, vocal practices and performance media within specific cultures.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.

MUHL 2620 Music of African Americans 3 s.h.
The study of African American musical genres from slavery to the present with focus on stylistic features, innovations, and the culture in which they were created. Topics may include Folk Music, Blues, Gospel, Ragtime, Jazz, Musical Theatre, Art/Classical Music, Rhythm & Blues, Funk, Disco and House, Techno, Hip-Hop, Rap, Gender Issues, Popular Music Industry, and Musical Agency.

MUHL 2621 Music Literature and Appreciation 3 s.h.
The development of listening techniques applicable to Western and non-Western music through the comparison and contrast of the music of significant historical periods. For non-music majors.
Gen Ed: Arts and Humanities, International Perspectives, Social and Personal Awareness.

MUHL 2622 Popular Music in America 3 s.h.
The changing styles in American popular music from its origins to the present day studied through an examination of representative compositions and performers.
Gen Ed: Arts and Humanities.

MUHL 2623 Core Concepts of Music 1 s.h.
Introduction to the study of music and culture. Basic parameters of music and its function in society are explored. Two MUEN large ensembles other than Marching Band must be taken in addition to this course to satisfy the requirements for GER credit. 1 s.h.

MUHL 2624 Survey of Hip Hop 3 s.h.
An historical survey of Hip Hop music from its origins through the early 21st Century.
Gen Ed: Arts and Humanities.

MUHL 2671 Music History and Literature 1 3 s.h.
An introduction to the intersection of music and culture. Students will explore the cultural contexts and the social, economic, and technological forces that influence the creation and dissemination of music. In addition to the core content of the class, students will be introduced to parallel narratives in the visual arts, literature, and theater. Students will demonstrate, through examination and written assignments, their understanding of how music history is a function of cultural values and choices.
Prereq.: sophomore standing.
Gen Ed: International Perspectives, Social and Personal Awareness.

MUHL 2672 Music History and Literature 2 3 s.h.
An introductory history of musical culture in Europe from Antiquity to 1750 C.E. Students will study the important composers and musical genres and the cultural contexts and social forces that influence the creation and dissemination of music. In addition to the core content of the class, students will be introduced to parallel narratives in the visual arts, literature, and theater. Students will also demonstrate, through examination and written assignments, their understanding of how music history is a function of cultural values and choices.
Prereq.: sophomore standing and MUHL 3771 or permission of instructor.
Gen Ed: Arts and Humanities.

MUHL 3773 Music History and Literature 3 3 s.h.
An introductory history of musical culture in Europe from 1750 C. E. to the present. Students will study the important composers and musical genres and the cultural contexts and social forces that influence the creation and dissemination of music. Students will be introduced to parallel narratives in the visual arts, literature, and theater. Students will also demonstrate, through examination and written assignments, their understanding of how music history is a function of cultural values and choices.
Prereq.: sophomore standing and MUHL 3772 or permission of instructor.
Gen Ed: Arts and Humanities.

MUHL 3774 Music History and Literature 4 3 s.h.
A historical survey of music in America. Students will study the important composers and musical genres and the cultural contexts and social forces that influence the creation and dissemination of music. In addition to the core content of the class, students will be introduced to parallel narratives in the visual arts, literature, and theater. Students will also demonstrate, through examination and written assignments, their understanding of American musical styles and how they have developed within America's unique historical context, demographics, and social structures.
Prereq.: sophomore standing and MUHL 3773 or permission of instructor.
Gen Ed: Arts and Humanities.

MUHL 3775 Jazz History 3 s.h.
Students will study and develop an understanding of jazz origins, influences, performers, compositions, and stylistic features from the turn of the century to the present. This will include study of early jazz, the swing era, bebop, cool, hard bop, post bop, modal music, modal chromatic music, free jazz, and fusion.
Prereq.: sophomore standing or permission of the instructor.

MUHL 3787 History and Appreciation of Art and Music 3 s.h.
(General) Illustrated lectures on art and music to develop the cultural growth of the non-art and non-music student. Art and music forms, comparisons of compositional styles, and discussion of the developments, influences, and experiments of the important periods to date. No prior training in art or music required. Not intended for Art majors. Listed also as ART 3787.

MUHL 5860 Keyboard Literature 3 s.h.
An investigation of the solo keyboard works of major composers from the earliest times to the present day.
Prereq.: MUTC 2632.

MUHL 5871 Baroque Music 3 s.h.
The evolution of musical styles during the period 1600-1750. A historical survey of documents and music literature of the time: opera from Monteverdi to Handel; keyboard and instrumental works; significant choral works, etc.
Prereq.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773, and MUHL 3774.

MUHL 5872 Eighteenth Century and the Viennese Classical School 3 s.h.
Musical developments from the decline of the baroque to the turn of the century; historical and stylistic elements contributing to the rise of classicism and culminating in the works of Mozart, Haydn, Beethoven.
Prereq.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773 and MUHL 3774.

MUHL 5873 Opera History 3 s.h.
A historical survey of opera: its development as an art form from its beginnings to the present.
Prereq.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773 and MUHL 3774.

MUHL 5874 Nineteenth Century 3 s.h.
Musical developments from Beethoven through Wagner; aesthetic, formal, technical and historical trends with special emphasis on nationalism and the music drama.
Prereq.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773, and MUHL 3774.

MUHL 5878 Selected Topics in Music History 3 s.h.
A study of a specific topic to be announced each time the course is offered. May be repeated once with different topic.
Prereq.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773, and MUHL 3774.
MUHL 5879  Vocal Literature  3 s.h.
A study of vocal literature from all periods. Special emphasis on English language repertoire and on material especially suitable for high school students. Songs are prepared for performance in class.
Prereq.: MUHL 3771, MUHL 3772, MUHL 3773, and MUHL 3774.

Music Industry
MUIN 1561  Music Recording Workshop  4 s.h.
Introduction to the music recording process and the recording studio. An overview of music recording grounded in history and the principles of acoustics. An exploration of analog and digital technology involved in music recording. Two hours lecture, two hours lab.
Prereq.: MUIN 1561.

MUIN 3700  Survey of Music Industry  2 s.h.
A general overview of the major functional areas of the music industry, with attention to the theoretical foundations and practical application of current business practices in the music industry.
Prereq.: Junior standing or permission of instructor.

MUIN 3762  Digital Sound Production  2 s.h.
An overview of MIDI and electronic musical instrument technology. Sequencers and mixing in the MIDI environment. Basic compositional techniques using MIDI and the computer and the application of MIDI in the music recording environment.
Prereq.: MUIN 1561.

MUIN 3763  Digital Recording and Editing  2 s.h.
A study of both linear and non-linear music recording and editing various hardware and software options, as well as the production of recording projects in both domains.
Prereq.: MUIN 1561.

MUIN 3764  Advanced Microphone Techniques  2 s.h.
Investigation of the characteristics of different microphones, microphone design, microphone selection, and microphone placement. The accessories of various miking situations will be investigated. Experiments with different microphone techniques in both the analogue and digital domains.
Prereq.: MUIN 3763.

MUIN 3765  Advanced Recording Techniques  2 s.h.
Investigates advanced elements of music recording from the recording session procedures to product manufacture. Advanced techniques in noise reduction, amplification, sound compression, and synchronization.
Prereq.: MUIN 3764.

MUIN 4866  Recording Internship  3 s.h.
Practicum in appropriate music recording environments. Addresses all aspects of the music recording industry. Students meet once a week on campus to share and discuss experiences from the intern position. A minimum of 12 hours per week will be spent in the field.
Prereq.: MUIN 3765 and senior standing in music recording.

MUIN 4867  Senior Project  4 s.h.
Independent student project to showcase skills and techniques learned in the content courses. Presentation of project in a public exhibition required.
Prereq.: MUIN 3765 and senior standing in music recording.

Music Theory and Composition
MUTC 1520  Materials of Music  3 s.h.
Musical styles, listening concepts, and harmonic techniques as they relate to the literature of music. For students who do not qualify for MUTC 1531 or MUTC 1531N.

MUTC 1531  Music Theory 1  2 s.h.
Prereq.: Music majors who have completed a successful audition for the Dana School of Music, and have achieved 80% or higher on the Theory Placement Exam, or permission of the instructor.

MUTC 1531N  Music Theory 1 Intensive  3 s.h.
Intensive section of Music Theory 1. Music fundamentals, including pitch notation in treble and bass clefs, major and minor scales and key signatures, rhythm and meter, intervals and triads. Principles of harmonic progression with diatonic chords in common-practice and popular styles. Introduction to analysis and phrase structure.
Prereq.: Music major, having achieved a successful audition for the Dana School of Music.

MUTC 1532  Music Theory 2  2 s.h.
The second of four courses in the Music Theory sequence. Review of four-part writing and analysis. Non-harmonic tones, expanding harmonic functions with diatonic triads and seventh chords, six-four chord techniques.
Prereq.: grade of "C" or better in both MUTC 1531 and MUTC 1541.

MUTC 1532N  Music Theory 2 Intensive  3 s.h.
Intensive section of Music Theory 2. Introduction to two-part counterpoint and four-voice writing with diatonic, root-position triads. Non-harmonic tones, expanding harmonic functions with diatonic triads and seventh chords, six-four chord techniques.
Prereq.: Grade of "C" or better in MUTC 1531N and MUTC 1541.

MUTC 1541  Aural Theory 1  2 s.h.
Dictation exercises including solfege patterns, bass line recognition, melody with simple rhythm, and 2-part counterpoint examples. Sight-singing including simple diatonic melodies, duets, chord-singing, and improvisation. Keyboard exercises including solfege patterns, play-and-sing, and transposition exercises. Solfege drills to build and maintain fluency with the solfege system.
Prereq.: Music majors who have completed a successful audition for the Dana School of Music.

MUTC 1542  Aural Theory 2  2 s.h.
Sight-sing diatonic and chromatic melodies. Aurally recognize and sing all diatonic triads and seventh chords. Diatonic and chromatic melodic dictation. Dictation and singing of diatonic chord progressions. Dictation of diatonic two-voice counterpoint in both strict species and free styles Mastery of cadential patterns and voice-leading at the keyboard.
Prereq.: Grade of "C" or better in both MUTC 1531 (or MUTC 1531N) and MUTC 1541.

MUTC 2631  Music Theory 3  2 s.h.
The third of four courses in the Music Theory sequence. Continued mastery of basic voice-leading. Chromatic harmony including secondary dominants, modulations, modal mixture, and augmented sixths. Study of small and large classical forms.
Prereq.: Grade of "C" or better in both MUTC 1532 or MUTC 1532N and MUTC 1542.

MUTC 2632  Music Theory 4  2 s.h.
Advanced chromaticism, including chromatic and enharmonic modulation, extended tertian structures, chromatic mediant, altered dominants, and common tone diminished-sevenths. Early twentieth-century musical styles and model composition.
Prereq.: Grade of "C" or better in both MUTC 2631 and MUTC 2641.
MUTC 2641  Aural Theory 3  2 s.h.
Practice and mastery of advanced sight singing, aural recognition, and piano/instrumental skills. Dictation exercises including chromatic solfege patterns, chord progressions, contextual listening, and harmonic melodies. Sight-singing exercises including harmonic patterns, melodies, duets, chord-singing, and improvisation.
Prereq.: MUTC 1532 or MUTC 1532N and MUTC 1542 with grade of “C” or better.

MUTC 2642  Aural Theory 4  2 s.h.
Dictation exercises include melodies, melodic fragments, chord qualities, and harmonic progressions with enharmonic and chromatic modulations. Sight-singing exercises include melodies with advanced chromaticism and post-tonal melodies. Sight-singing repertoire including four-part chorales and music from the late nineteenth and early twentieth centuries. 2 s.h.
Prereq.: MUTC 2631 and MUTC 2641 with grades of “C” or better.

MUTC 3710  Orchestration and Arranging  3 s.h.
A hands-on course in which students develop and demonstrate fundamental skills in orchestration/arranging for wind band, orchestra, and choir. Topics include standard ranges, transpositions, clefs, timbres, playability/singability, tessituras, and common techniques and devices for scoring instruments and voices. Particular focus on arranging for school ensembles.
Prereq.: MUTC 2632 or permission of instructor.

MUTC 3712  Jazz Arranging 1  3 s.h.
Scoring in the jazz idiom with emphasis on harmonic concepts, voicing procedures, form, and stylistic trends developed by major jazz composer-arrangers. Detailed study of instrumental techniques with projects scored for various size ensembles. Student arrangements are performed in reading sessions and concerts. Classes must be taken in sequence.
Prereq.: MUTC 1532 and MUAC 2668 or permission of instructor.

MUTC 3713  Jazz Arranging 2  3 s.h.
Scoring in the jazz idiom with emphasis on harmonic concepts, voicing procedures, form, and stylistic trends developed by major jazz composer-arrangers. Detailed study of instrumental techniques with projects scored for various size ensembles. Student arrangements are performed in reading sessions and concerts. Classes must be taken in sequence.
Prereq.: MUTC 1532 and MUAC 2668 or permission of instructor.

MUTC 3750  Analytical Techniques 3 s.h.
Analysis of representative repertoire from the Renaissance, Baroque, Classical, Romantic, and Contemporary periods.
Prereq.: MUTC 2632 and MUTC 2642 with grades of “C” or better.

MUTC 5821  Composition for Minors 2 s.h.
Composition in two- and three-part forms, and other compositions of small scope, such as variation and sonatina. Works are composed both for piano alone, and in combination with other instruments or voice. May be repeated by composition majors to meet requirements for freshman and sophomore composition for majors.
Prereq.: MUTC 2632 with a grade of “C” or better, or permission of instructor for composition majors.

MUTC 5822  Composition for Minors 2 s.h.
Composition in two- and three-part forms, and other compositions of small scope, such as variation and sonatina. Works are composed both for piano alone, and in combination with other instruments or voice. May be repeated by composition majors to meet requirements for freshman and sophomore composition for majors.
Prereq.: MUTC 2632 with a grade of “C” or better, or permission of instructor for composition majors.

MUTC 5828  Music Technology 3 s.h.
An exploration of the use of computers and technology in music. Applications related to composition, performance, analysis, teaching, and research.
Prereq.: MUTC 2632 with grade of “C” or better or permission of instructor.

MUTC 5830  Materials of 20th Century Music 3 s.h.
Study of the various elements of 20th century compositions, including melody, harmony, rhythm, texture, and form.
Prereq.: MUTC 2632 with a grade of “C” or better.

MUTC 5831  Modal Counterpoint 3 s.h.
Sixteenth century contrapuntal style including introduction of species technique; analysis of liturgical and secular repertoire; writing of imitative counterpoint with stylistic rhythms and cadences.
Prereq.: MUTC 2632 with a grade of “C” or better.

MUTC 5832  Tonal Counterpoint 3 s.h.
Contrapuntal style of baroque music including an analysis of examples in imitative and invertible counterpoint; writing two- and three-part inventions and three- and four-part fugal expositions.
Prereq.: MUTC 2632 with a grade of “C” or better.

MUTC 5833  Theory Seminar 3 s.h.
Topics in music theory not covered in regular upper-division offerings. May be repeated once with different topic.
Prereq.: MUTC 2632 with a grade of “C” or better.

MUTC 5834  Electronic Music 3 s.h.
Techniques of analog and digital synthesis including tape composition, musique concrete; advanced MIDI applications such as sequencing and sampling; and digital audio editing. Composition in electronic and mixed media.
Prereq.: For composition majors, COMP 1502 or equivalent; for non-composition majors, MUTC 2632 with a grade of “C” or better; for non-majors, permission of instructor.

MUTC 5840  Instrumentation 3 s.h.
Ranges, transposition, technical characteristics, and tonal features of the instruments. Scoring for large and small ensembles which are available as laboratory reading groups.
Prereq.: MUTC 2632 with a grade of “C” or better.

Bachelor of Arts in Music

The BA in Music offers a broad liberal arts degree in music with many opportunities for personal growth as a musician.

COURSE TITLE S.H.
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

GENERAL EDUCATION REQUIREMENTS

ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
MATH 2623 Quantitative Reasoning 3
Arts and Humanities (2 courses)
Satisfied by 6 SH of MUHL 3772, 3773, or 3774, which are required in the major.
Natural Science (2 courses, 1 must include lab) 7
Social Science (2 courses) 6
Social and Personal Awareness (need 1 additional course) 3
One course satisfied by 3 SH of MUHL 3771, which is required in the major.
Foreign Language Requirement
Any Foreign Language 1550 Level Course 4
Any Foreign Language 2500 Level Course 4

CORE MUSIC REQUIREMENTS

Music Theory (19-21 hours) (Music theory and Aural Theory of the same level must be taken concurrently.)
MUTC 1531 Music Theory 1 2-3
Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531
MUTC 1541  Aural Theory 1  2
MUTC 1532  Music Theory 2  2-3
Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532
MUTC 1542  Aural Theory 2  2
MUTC 2631  Music Theory 3  2
MUTC 2641  Aural Theory 3  2
MUTC 2632  Music Theory 4  2
MUTC 2642  Aural Theory 4  2
MUTC 3750  Analytical Techniques  3

**Keyboard Musicianship (4 hours)**
MUAC 1581  Class Piano 1  1
Keyboard majors will substitute MUAC 2691
MUAC 1582  Class Piano 2  1
Keyboard majors will substitute MUAC 2692
MUAC 2681  Class Piano 3  1
Keyboard majors will substitute MUAC 2693 or MUAC 3781
MUAC 2682  Class Piano 4  1
Keyboard majors will substitute MUAC 2694 or MUAC 3782

**Music History and Literature (12 hours)**
MUHL 3771  Music History and Literature 1  3
MUHL 3772  Music History and Literature 2  3
MUHL 3773  Music History and Literature 3  3
MUHL 3774  Music History and Literature 4  3

**Conducting (3 hours)**
MUCO 3715  Choral and Instrumental Conducting  3

**APPLIED LESSONS (14 hours)**
Applied Lesson 1501  2
Applied Lesson 1502  2
Applied Lesson 2601  2
Applied Lesson 2602  2
Applied Lesson 3701  2
Applied Lesson 3702  2
Applied Lesson 4801 (with Senior Recital)  2

**ENSEMBLES (8 hours)**
Large Ensembles  6
Small Ensembles  2

**MUSIC ELECTIVES (5 hours)**
5

**MINOR: 12-18 hours (6 hours upper division)**
*12-credit minor will require 6 hours of additional elective credit.

**Total Semester Hours**  120-124

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with an ensemble each semester.

**Year 1**
**Fall**
YSU 1500  Success Seminar  1-2
or SS 1500  or Strong Start Success Seminar
or HONR 1500  or Intro to Honors
ENGL 1550  Writing 1  3-4
or ENGL 1549  or Writing 1 with Support
MUTC 1531  Music Theory 1  4-5
& MUTC 1541  and Aural Theory 1
Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531

**Spring**
ENGL 1551  Writing 2  3
MATH 2623  Quantitative Reasoning  3
General Education Elective  3
MUTC 1532  Music Theory 2  4-5
& MUTC 1542  and Aural Theory 2
Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532

**Year 2**
**Fall**
CMST 1545  Communication Foundations  3
Course for Minor  3
MUTC 2631  Music Theory 3  4
& MUTC 2641  and Aural Theory 3
MUTC 2681  Class Piano 3  1
Keyboard majors will substitute MUAC 2693
MUHL 3771  Music History and Literature 1  3
Applied Lesson 2601  2
MUEN 00XX  1

**Spring**
General Education Elective  3
Course for Minor  3
MUTC 2632  Music Theory 4  4
& MUTC 2642  and Aural Theory 4
MUTC 2682  Class Piano 4  1
Keyboard majors will substitute MUAC 2694
MUHL 3772  Music History and Literature 2  3
Applied Lesson 2602  2
MUEN 00XX  1

**Year 3**
**Fall**
Natural Science + Lab  4
Course for Minor  3
MUTC 3750  Analytical Techniques  3
MUHL 3773  Music History and Literature 3  3
Applied Lesson 3701  2
MUEN 00XX  1

**Spring**
General Education Elective  3
Course for Minor  3
MUHL 3774  Music History and Literature 4  3
MUCO 3715  Choral and Instrumental Conducting  3
Applied Lesson 3702  2
Bachelor of Music in Music Composition

### COURSE TITLE S.H.

#### FIRST YEAR REQUIREMENT - STUDENT SUCCESS

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<tr>
<th>COURSE</th>
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<td>YSU 1500</td>
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<td>or HONR 1500</td>
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#### GENERAL EDUCATION REQUIREMENTS

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<td>or ENGL 1549</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
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<tr>
<td>Math Requirements</td>
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Arts and Humanities (2 courses)

- Satisfied by 6 SH of MUHL 3772 or 3773 or 3774, which are required in the major.

Natural Sciences (2 courses, 1 with lab)

- 7

Social Science (2 courses)

- 6

Social and Personal Awareness (need 1 additional course)

- 3

One course satisfied by 3 SH of MUHL 3771, which is required in the major.

#### CORE MUSIC REQUIREMENTS

Music Theory (19-21 hours). (Music Theory and Aural Theory of the same level must be taken concurrently.)

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#### COMPOSITION EMPHASIS (31 hours)

Composition Studio (20 hours)

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<td>MCMP 2601</td>
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<td>MCMP 2602</td>
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<td>MCMP 3703</td>
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<td>MCMP 3704</td>
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<td>MCMP 4803</td>
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<tr>
<td>MCMP 4804</td>
<td>Composition</td>
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Senior Recital (Composition)

- N/ C
### Music Recording/Technology (6 hours)
- **MUIN 1561** Music Recording Workshop 4
- **MUIN 3762** Digital Sound Production 2

### Methods Courses - Select from the Following (5 hours):
- **MUAC 3733** Brass Methods
- **MUAC 3735** Jazz Methods
- **MUAC 3755** Guitar Methods
- **MUAC 3759** Voice Class

### Electives to Meet 120 hours
- Applied lesson must be taken concurrently with an ensemble each semester.

### Total Semester Hours 120-124
- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.

### Year 1

#### Fall
- **ENGL 1550** Writing 1 3-4
- **YSU 1500** Success Seminar 1-2
- **MUTC 1531** Music Theory 1 and Aural Theory 1 4-5

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>4-5</td>
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<td>MUART 1541</td>
<td>Aural Theory 1</td>
<td>4-5</td>
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#### Spring
- **ENGL 1551** Writing 2 3
- **MUTC 1532** Music Theory 2 and Aural Theory 2 4-5

<table>
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<th>Course</th>
<th>Description</th>
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<td>MUTC 1532</td>
<td>Music Theory 2</td>
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<tr>
<td>MUART 1542</td>
<td>Aural Theory 2</td>
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### Semester Hours 14-17

### Year 2

#### Fall
- **CMST 1545** Communication Foundations 3
- **MATH 2623** Quantitative Reasoning 3
- **MUTC 2631** Music Theory 3 and Aural Theory 3 4

#### Spring
- **MCMP 4804** Composition (with Senior Recital) 3

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<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<td>MUART 2641</td>
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<tr>
<td>MUART 2681</td>
<td>Class Piano 3</td>
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</table>

### Total Semester Hours 120-124
- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with an ensemble each semester.
Learning Outcomes
The student learning outcomes for the major in music are as follows:

- Students will perform a public recital in their applied area.
- Students will analyze music, discriminate pitch, harmony, and rhythm and perform harmonic progressions at the piano.
- Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.
- Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.
- Students will compose music in a variety of genres.

Bachelor of Music in Education Instrumental Emphasis

The music education program prepares students for licensure as music teachers in the public schools. Through excellent collaboration between the University and area school districts and teachers, music education students have a variety of opportunities for observation and student teaching. This track allows students to specialize in instrumental settings for careers in music education that focus on band and orchestra.

<table>
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<tr>
<th>COURSE</th>
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<tr>
<td>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td>General Education Requirements</td>
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<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<td>or ENGL 1549</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<td>Knowledge Domains</td>
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<td>&amp; MUTC 1541</td>
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<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531.</td>
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<td>MUHL 3773</td>
<td>Music History and Literature 3</td>
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<td>Applied Lesson 3701</td>
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<td>Applied Lesson 3702</td>
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<td>Applied Lesson 4801 (with Senior Recital)**</td>
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<td>Chamber Ensemble</td>
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<td>Music Education</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methods: 5 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select 5 methods courses from the following:</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>MUAC 3732 Brass Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUAC 3733 Woodwind Methods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUAC 3734 String Methods</td>
<td></td>
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<tr>
<td>MUAC 3735 Jazz Methods</td>
<td></td>
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<tr>
<td>MUAC 3755 Guitar Methods</td>
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<tr>
<td>MUAC 3759 Voice Methods</td>
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<tr>
<td>MUAC 3763 Percussion Methods</td>
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<tr>
<td>Music Education: 24 hours</td>
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<tr>
<td>MUED 2611</td>
<td>Computer Applications in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 2622</td>
<td>Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4823</td>
<td>Music Teaching in Early Childhood (Pre K3)</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4824</td>
<td>Music Teaching in the Middle School</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4825</td>
<td>Music Teaching in the High School</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4821</td>
<td>Instrumental Music Education</td>
<td>2</td>
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<tr>
<td>MUED 4842A</td>
<td>Student Teaching Seminar for Music Education</td>
<td>2</td>
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<tr>
<td>MUED 4844</td>
<td>Supervised Student Teaching: Music (K-12)</td>
<td>10</td>
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<tr>
<td>**Prior to student teaching (MUED 4844), students are required to complete the Senior Recital.</td>
<td></td>
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<tr>
<td>College of Education: 15 hours</td>
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<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
<td>3</td>
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<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
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</tr>
<tr>
<td>SPED 2630L</td>
<td>Individuals with Exceptionalities in Society Laboratory Experience</td>
<td>0</td>
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<td>EDFN 3708</td>
<td>Education and Society</td>
<td>3</td>
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<tr>
<td>PSYC 3709</td>
<td>Psychology of Education</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
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</tbody>
</table>

**Total Semester Hours** 132-136

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with a large ensemble each semester.

A student may satisfy the MATH requirement by passing this course or one of the following alternate courses or its equivalent: MATH 1510, MATH 1511, MATH 1513, MATH 1552, MATH 1571, MATH 1581H, MATH 1585H, MATH 2652, MATH 2665, MATH 2670, MATH 2686H, PHIL 2619, or STAT 2601.

Different Emphases may vary slightly

### Year 1

#### Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>YSU 1500</td>
<td>Success Seminar or Strong Start Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td></td>
<td>MUTC 1531</td>
<td>Music Theory 1 &amp; MUTC 1541 and Aural Theory 1</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531.

MUAC 1581  Class Piano 1 1

Keyboard majors will substitute MUAC 2691.

MUEN XXXX 1

ENGL 1550 or ENGL 1549  Writing 1 or Writing 1 with Support 3-4

EDFN 1501  Introduction to Education 3

MATH 2623  Quantitative Reasoning 3

**Semester Hours** 18-21

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Spring</td>
<td>Instrument or Voice 1502</td>
<td></td>
<td>2</td>
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<tr>
<td></td>
<td>MUTC 1532</td>
<td>Music Theory 2 &amp; MUTC 1542 and Aural Theory 2 (Core UD Gateway Course)</td>
<td>4-5</td>
</tr>
</tbody>
</table>

Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.

MUAC 1582  Class Piano 2 1

Keyboard majors will substitute MUAC 2692.

ENGL 1551  Writing 2 3

PSYC 1560  General Psychology 3

SPED 2630  Individuals with Exceptionalities in Society 3

SPED 2630L  Individuals with Exceptionalities in Society Laboratory Experience 0

**Semester Hours** 17-18

### Year 2

#### Year 2

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Instrument or Voice 2601</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUTC 2631</td>
<td>Music Theory 3 &amp; MUTC 2641 and Aural Theory 3</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MUEN XXXX Large Ensemble</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>MUAC 2681</td>
<td>Class Piano 3</td>
<td>1</td>
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</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MUED 2611 or MUED 2622</td>
<td>Computer Applications in Music Education or Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUED 37XX Methods Course</td>
<td></td>
<td>1</td>
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<tr>
<td></td>
<td>MUED 37XX Methods Course</td>
<td></td>
<td>1</td>
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<tr>
<td></td>
<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
<td>3</td>
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<td></td>
<td>CMST 1545</td>
<td>Communication Foundations (Core UD Gateway Course)</td>
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**Semester Hours** 18

### Year 3

#### Year 3

<table>
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<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Instrument or Voice 3701</td>
<td></td>
<td>2</td>
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<tr>
<td></td>
<td>MUOC 3715</td>
<td>Choral and Instrumental Conducting</td>
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<td>MUED 4823</td>
<td>Music Teaching in Early Childhood (Pre K-3)</td>
<td>2</td>
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<td></td>
<td>MUED 4821</td>
<td>Instrumental Music Education</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MUHL 3773</td>
<td>Music History and Literature 3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MUEN XXXX Large Ensemble</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Social Science Elective</td>
<td></td>
<td>3</td>
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<tr>
<td></td>
<td>Natural Science Elective</td>
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</table>

If students wish to student teach in the spring of 4th year, all convocation requirements must be completed by the end of 3rd year.

**Semester Hours** 19

### Year 4

#### Year 4

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Senior Recital MUST be completed by the end of this semester. Application to student teach is due by September 15. Placement meeting with Music Education Coordinator must occur before September 15. Instrument or Voice 4801</td>
<td></td>
<td>2</td>
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<tr>
<td></td>
<td>MUED 4825</td>
<td>Music Teaching in the High School</td>
<td>2</td>
</tr>
</tbody>
</table>

**Semester Hours** 19
Bachelor of Music in Education, Instrumental Jazz Track

The music education program prepares students for licensure as music teachers in the public schools. Through excellent collaboration between the University and area school districts and teachers, music education students have a variety of opportunities for observation and student teaching. This track allows students to earn BM degree in Music Education with an emphasis in jazz. It is a unique program for the area.

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 1-2
or HONR 1500 | Intro to Honors | 1-2
**General Education Requirements**
ENGL 1550 | Writing 1 | 3-4
or ENGL 1549 | Writing 1 with Support | 3-4
ENGL 1551 | Writing 2 | 3
CMST 1545 | Communication Foundations | 3
MATH 2623 | Quantitative Reasoning \(^1\) | 3
Arts and Humanities (6 hours satisfied by MUHL 3772, MUHL 3773, or MUHL 3774) | 3
Natural Science (2 courses; one with lab) (7 s.h.) | 7
Social Science (6 s.h.) | 6
---

EDFN 3708 | Education and Society | 3
MUEN 00XX | Large Ensemble | 1
MUAC 37XX | Methods Course | 1
Natural Science + Lab | 4
General Education Elective | 3

**Semester Hours** | **Total Semester Hours** | 136-140
--- | --- | ---
Spring
MUED 4842A | Student Teaching Seminar for Music Education | 2
MUED 4844 | Supervised Student Teaching: Music (K-12) | 10

**Prior to student teaching (MUED 4844), students are required to complete the Senior Recital.**

---

**Core Music Requirements**

**Music Theory: 19-21 hours**

MUTC 1531 | Music Theory 1 | 2-3
or MUTC 1531N | Music Theory 1 Intensive | 2-3

Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531.

MUTC 1541 | Aural Theory 1 | 2
MUTC 1532 | Music Theory 2 | 2-3
or MUTC 1532N | Music Theory 2 Intensive | 2-3

Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.

MUTC 1542 | Aural Theory 2 | 2
MUTC 2631 | Music Theory 3 | 2-3
& MUTC 2641 | and Aural Theory 3 | 2-3
MUTC 2632 | Music Theory 4 | 2-3
& MUTC 2642 | and Aural Theory 4 | 2-3
MUTC 3712 | Jazz Arranging 1 | 3

**Music History and Literature: 12 hours**

MUHL 3771 | Music History and Literature 1 | 3
MUHL 3775 | Jazz History | 3
Select 2 courses from the following:

 MUHL 3772 | Music History and Literature 2 | 3
 MUHL 3773 | Music History and Literature 3 | 3
 MUHL 3774 | Music History and Literature 4 | 3

**Keyboard Musicianship: 4 hours**

MUAC 1581 | Class Piano 1 | 1
Keyboard majors will substitute MUAC 2691.
MUAC 1582 | Class Piano 2 | 1
Keyboard majors will substitute MUAC 2692.
MUAC 3781 | Jazz Class Piano 1 | 1
MUAC 3782 | Jazz Class Piano 2 | 1

**Conducting**

MUCO 3715 | Choral and Instrumental Conducting | 3

**Applied Lessons**

**Primary Instrument Applied Lessons: 14 hours**

Applied Lesson 1501 | 2
Applied Lesson 1502 | 2
Applied Lesson 2601 | 2
Applied Lesson 2602 | 2
Applied Lesson 3701 | 2
Applied Lesson 3702 | 2
Applied Lesson 4801 (with Senior Recital)** | 2

**Ensembles**

**Large Ensembles: 5 hours**

MUEN 0006 | Marching Band | 1
MUEN 0023 | Jazz Ensemble | 1
MUEN 0023 | Jazz Ensemble | 1
MUEN 0023 | Jazz Ensemble | 1
MUEN 0023 | Jazz Ensemble | 1

**Chamber Ensembles: 2 hours**

MUEN 0030 | Jazz Combo | 1
or MUEN 0013 | Contemporary Ensemble | 1

MUEN 0030 | Jazz Combo | 1

---

1 A student may satisfy the MATH requirement by passing this course or one of the following alternate courses or its equivalent: MATH 1510, MATH 1511, MATH 1513, MATH 1552, MATH 1571, MATH 1581H, MATH 1585H, MATH 2652, MATH 2665, MATH 2670, MATH 2686H, PHIL 2619, or STAT 2601.

1 Students with a strong background in music history and literature may substitute MUTC 1532N for MUTC 1532.

1 Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.

1 Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.

1 Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.
or MUEN 0013 Contemporary Ensemble

Music Education
Method: 7 hours
MUED 2611 Computer Applications in Music Education 2
MUED 2621 Foundations of Music Education 2
MUAC 4822 Music Teaching in Early Childhood (Pre K-3) 2
MUAC 4824 Music Teaching in the Middle School 2
MUAC 4825 Music Teaching in the High School 2
MUAC 4821 Instrumental Music Education 2
MUAC 4824A Student Teaching Seminar for Music Education 2
MUAC 4844 Supervised Student Teaching: Music (K-12) 10

**Prior to student teaching (MUED 4844), students are required to complete the Senior Recital.

College of Education: 15 Hours
EDFN 1501 Introduction to Education 3
SPED 2630 Individuals with Exceptionalities in Society 3
TERG 3711 Reading Application in Content Areas, Secondary Years 3
PSYC 3709 Psychology of Education 3
EDFN 3708 Education and Society 3

Total Semester Hours: 134-138

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with an ensemble each semester.

Students are required to complete the Senior Recital prior to student teaching (MUED 4844).

A student may satisfy the MATH requirement by passing this course or one of the following alternate courses or its equivalent: MATH 1510, MATH 1511, MATH 1513, MATH 1552, MATH 1571, MATH 1581H, MATH 1585H, MATH 2652, MATH 2665, MATH 2670, MATH 2686H, PHIL 2619, or STAT 2601.

Year 1
Fall
YSU 1500 Success Seminar 1-2
or SS 1500 or Strong Start Success Seminar 1
or HONR 1500 or Intro to Honors 1
Applied Lesson 1501 2
MUTC 1531 Music Theory 1 2-3
or MUTC 1531N or Music Theory 1 Intensive 3
MUTC 1541 Aural Theory 1 2
MUAC 1581 Class Piano 1 1

Year 2
Fall
MUTC 2631 Music Theory 3 4
& MUTC 2641 and Aural Theory 3 2
Applied Lesson 2601 2
MUTC 3781 Jazz Class Piano 1 1
MUTC 2611 Computer Applications in Music Education 2
or MUTC 2622 or Foundations of Music Education 2
MUEN 0023 Jazz Ensemble 1
MUAC 37XX Methods Course 1
MUAC 3735 Jazz Ensemble 1
MUTC 3732 Jazz Improvisation 1 3
or MUEN 0013 Contemporary Ensemble 2
MUAC 3733 Woodwind Methods 1
MUAC 3734 String Methods 1
MUAC 3755 Guitar Methods 1
MUAC 3759 Voice Methods 1
MUAC 3763 Percussion Methods 1

Spring
Applied Lesson 1502 2
MUTC 1532 Music Theory 2 2-3
or MUTC 1532N or Music Theory 2 Intensive 2
Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for 1532.
MUTC 1542 Aural Theory 2 2
MUAC 1582 Class Piano 2 1
Keyboard majors will substitute MUAC 2692.
ENGL 1551 Writing 2 3
MUEN 0023 Jazz Ensemble 1
PSYC 1560 General Psychology 3
SPED 2630 Individuals with Exceptionalities in Society 3
SPED 2630L Individuals with Exceptionalities in Society Laboratory Experience 0

Semester Hours: 18-21

Year 3
Fall
Applied Lesson 3701 2
MUTC 3712 Jazz Arranging 1 3
MUHL 3773 Music History and Literature 3 3
MUEN 0023 Jazz Ensemble 1

Semester Hours: 18
Prior to student teaching, students are required to complete the **MUED 4844**

**MUED 4825** Music Teaching in Early Childhood (Pre K-3)

**MUED 4821** Instrumental Music Education

General Education Elective (Natural Science)

If students wish to student teach in the spring of 4th year, all convocation requirements must be completed by the end of 3rd year.

### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MUED 4824 Music Teaching in the Middle School</td>
<td>2</td>
</tr>
<tr>
<td>MUEN 0023 Jazz Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>General Education Elective (Social/Personal Awareness)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3709 Psychology of Education</td>
<td>3</td>
</tr>
</tbody>
</table>

### Semester Hours

| Semester Hours | 16 |

### Year 4

#### Fall

Senior Recital MUST be completed by the end of this semester.

Application to student teach is due September 15. Placement meeting with Music Education Coordinator must occur before September 15.

### Applied Lesson 4801 (with Senior Recital)**

**MUED 4825** Music Teaching in the High School

EDFN 3708 Education and Society

**MUEN 0030** Jazz Combo

Natural Science with Lab

**MUAC 37XX** - Methods Course

**MUAC 37XX** - Methods Course

General Education Elective (Social Science)

### Semester Hours

| Semester Hours | 17 |

### Spring

**MUED 4842A** Student Teaching Seminar for Music Education

**MUED 4844** Supervised Student Teaching: Music (K-12)

**Prior to student teaching, students are required to complete the Senior Recital.**

### Semester Hours

| Semester Hours | 12 |

### Total Semester Hours

<table>
<thead>
<tr>
<th>Title</th>
<th>S.H.</th>
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<tbody>
<tr>
<td><strong>Bachelor of Music in Music Education, Voice Track</strong></td>
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</tr>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
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</tr>
<tr>
<td>YSU 1500 Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500 Strong Start Success Seminar</td>
<td></td>
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<tr>
<td>or HONR 1500 Intro to Honors</td>
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</tr>
<tr>
<td><strong>GENERAL EDUCATION REQUIREMENTS</strong></td>
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<tr>
<td>ENGL 1550 Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549 Writing 1 with Support</td>
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<tr>
<td>ENGL 1551 Writing 2</td>
<td>3</td>
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<tr>
<td>CMST 1545 Communication Foundations</td>
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<tr>
<td>MATH 2623 Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td><strong>Arts and Humanities (6 s.h.)</strong></td>
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<tr>
<td>Requirement satisfied by 6 hours of MUHL 3772-3774</td>
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<tr>
<td><strong>NATURAL SCIENCES (2 courses, 1 with lab) (6-7 s.h.)</strong></td>
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<tr>
<td><strong>SOCIAL SCIENCE (6 s.h.)</strong></td>
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<tr>
<td>PSYC 1560 General Psychology</td>
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<tr>
<td><strong>SOCIAL AND PERSONAL AWARENESS (6 s.h.)</strong></td>
<td></td>
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<tr>
<td>MUHL 3771 Music History and Literature 1</td>
<td>3</td>
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<tr>
<td><strong>SPA elective</strong></td>
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<tr>
<td><strong>Core Music Requirements</strong></td>
<td></td>
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<tr>
<td><strong>Music Theory: 19-21 hours</strong></td>
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<tr>
<td>MUTC 1531 Music Theory 1 &amp; MUTC 1541 &amp; Aural Theory 1</td>
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<tr>
<td><strong>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531.</strong></td>
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<tr>
<td>MUTC 1532 Music Theory 2 &amp; MUTC 1542 &amp; Aural Theory 2</td>
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<td><strong>Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.</strong></td>
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<td>MUTC 2631 Music Theory 3 &amp; MUTC 2641 &amp; Aural Theory 3</td>
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<td>MUTC 2632 Music Theory 4 &amp; MUTC 2642 &amp; Aural Theory 4</td>
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<tr>
<td>MUTC 3710 Orchestration and Arranging</td>
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<td>MUHL 3771 Music History and Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>MUHL 3772 Music History and Literature 2</td>
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<tr>
<td>MUHL 3773 Music History and Literature 3</td>
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<tr>
<td>MUHL 3774 Music History and Literature 4</td>
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<tr>
<td><strong>Keyboard Musicianship: 4 hours</strong></td>
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<tr>
<td>MUAC 1581 Class Piano 1</td>
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<tr>
<td>MUAC 1582 Class Piano 2</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 2681 Class Piano 3</td>
<td>1</td>
</tr>
<tr>
<td>or MUAC 3781 Jazz Class Piano 1</td>
<td></td>
</tr>
<tr>
<td>MUAC 2682 Class Piano 4</td>
<td>1</td>
</tr>
<tr>
<td>or MUAC 3782 Jazz Class Piano 2</td>
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<td><strong>Keyboard majors will substitute Professional Piano Skills 1 thru 4 (MUAC 2691, 2692, 2693, and 2694).</strong></td>
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<tr>
<td><strong>Conducting</strong></td>
<td></td>
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<tr>
<td>MUCO 3715 Choral and Instrumental Conducting</td>
<td>3</td>
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<tr>
<td><strong>Applied Lessons</strong></td>
<td></td>
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</tbody>
</table>

### Music students

- Must attend 36 convocations as a graduation requirement.
- Must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with an ensemble each semester.

A student may satisfy the MATH requirement by passing this course or one of the following alternate courses or its equivalent: MATH 1510, MATH 1511, MATH 1513, MATH 1552, MATH 1571, MATH 1581H, MATH 1585H, MATH 2652, MATH 2665, MATH 2670, MATH 2686H, PHIL 2619, or STAT 2601.

Students will perform a public recital in their applied area.

Students will analyze music, discriminate pitch, harmony, and rhythm and perform harmonic progressions at the piano.

Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.

Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.
### Primary Instrument Applied Lessons: 14 hours

<table>
<thead>
<tr>
<th>Lesson Code</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Lesson 1501</td>
<td>2</td>
</tr>
<tr>
<td>Applied Lesson 1502</td>
<td>2</td>
</tr>
<tr>
<td>Applied Lesson 2601</td>
<td>2</td>
</tr>
<tr>
<td>Applied Lesson 2602</td>
<td>2</td>
</tr>
<tr>
<td>Applied Lesson 3701</td>
<td>2</td>
</tr>
<tr>
<td>Applied Lesson 3702</td>
<td>2</td>
</tr>
<tr>
<td>Applied Lesson 4801 (with Senior Recital)**</td>
<td>2</td>
</tr>
</tbody>
</table>

**Ensembles**

<table>
<thead>
<tr>
<th>Ensemble</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Large Ensembles</td>
<td>5</td>
</tr>
<tr>
<td>Chamber Ensembles</td>
<td>2</td>
</tr>
</tbody>
</table>

### Music Education

**Methods: 3 hours**

Select 3 methods courses from the following:

- MUAC 3732 Brass Methods
- MUAC 3733 Woodwind Methods
- MUAC 3734 String Methods
- MUAC 3735 Jazz Methods
- MUAC 3755 Guitar Methods
- MUAC 3763 Percussion Methods

### Music Education: 26 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUED 2611</td>
<td>Computer Applications in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 2622</td>
<td>Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4823</td>
<td>Music Teaching in Early Childhood (Pre K-3)</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4824</td>
<td>Music Teaching in the Middle School</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4825</td>
<td>Music Teaching in the High School</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4822</td>
<td>Teaching Choral Music</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4842A</td>
<td>Student Teaching Seminar for Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUED 4844</td>
<td>Supervised Student Teaching: Music (K-12)</td>
<td>10</td>
</tr>
</tbody>
</table>

**Prior to student teaching (MUED 4844), students are required to complete the Senior Recital.**

- MUED 5880 Vocal Pedagogy | 1 |
- Diction, select one from the following: | 1 |
  - MUAC 1556 Singer’s Diction: English/Italian
  - MUAC 1557 Singer’s Diction German
  - MUAC 1558 Singer’s Diction French

### College of Education: 15 hours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3711</td>
<td>Reading Application in Content Areas, Secondary Years</td>
<td>3</td>
</tr>
<tr>
<td>EDFN 3708</td>
<td>Education and Society</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3709</td>
<td>Psychology of Education</td>
<td>3</td>
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</tbody>
</table>

**Total Semester Hours: 132-136**

- *Music students must attend 36 convocations as a graduation requirement.*
- *Music students must attend 30 Dana School of Music concerts or recitals.*
- *Applied lesson must be taken concurrently with large ensemble each semester.*

A student may satisfy the MATH requirement by passing this course or one of the following alternate courses or its equivalent: MATH 1510, MATH 1511, MATH 1513, MATH 1552, MATH 1571, MATH 1581H, MATH 1585H, MATH 2652, MATH 2665, MATH 2670, MATH 2686H, PHIL 2619, or STAT 2601.

### Year 1

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>or Intro to Honors</td>
<td></td>
</tr>
<tr>
<td>or SS 1500</td>
<td>or Strong Start Success Seminar</td>
<td></td>
</tr>
</tbody>
</table>

**Instrument or Voice 1501**

- MUTC 1531 | Music Theory 1 | 4-5 |
- & MUTC 1541 | and Aural Theory 1 | |

Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 1581</td>
<td>Class Piano 1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Music Education: 26 hours**

- **MUEN XXXX** Large Ensemble | 1 |

**Fall**

- Instrument or Voice 1502 | 2 |
- MUTC 1532 | Music Theory 2 | 4-5 |
- & MUTC 1542 | and Aural Theory 2 | |

Students in the Intensive Track will substitute MUTC 1532N for MUTC 1532.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 1582</td>
<td>Class Piano 2</td>
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**College of Education: 15 hours**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDFN 1501</td>
<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 1</td>
<td>3</td>
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</table>

**Total Semester Hours: 18-21**

#### Spring

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<tr>
<th>Course Code</th>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUAC 37XX</td>
<td>Methods Course</td>
<td>1</td>
</tr>
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</table>

**Spring**

- Instrument or Voice 2601 | 2 |
- MUTC 2631 | Music Theory 3 | 4 |
- & MUTC 2641 | and Aural Theory 3 | |
- MUAC 2681 | Class Piano 1 | 3 |

Keyboard majors will substitute MUAC 2693.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 1556</td>
<td>Singer’s Diction: English/Italian</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 1557</td>
<td>Singer’s Diction German</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 1558</td>
<td>Singer’s Diction French</td>
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**College of Education: 15 hours**

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<tr>
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<th>Course Title</th>
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</thead>
<tbody>
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<td>Introduction to Education</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>Individuals with Exceptionalities in Society</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
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</table>

**Total Semester Hours: 17-18**

#### Year 2

#### Fall

- Instrument or Voice 2601 | 2 |
- MUTC 2631 | Music Theory 4 | 4 |
- & MUTC 2642 | and Aural Theory 4 | |
- MUAC 2682 | Class Piano 4 | 1 |

Keyboard majors will substitute MUAC 2694.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN XXXX</td>
<td>Large Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 37XX</td>
<td>Methods Course</td>
<td>1</td>
</tr>
<tr>
<td>MUED 2622</td>
<td>Foundations of Music Education</td>
<td>2</td>
</tr>
<tr>
<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours: 18**

#### Spring

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 37XX</td>
<td>Methods Course</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>4</td>
</tr>
</tbody>
</table>
- & MUTC 2642 | and Aural Theory 4 | |
- MUAC 2682 | Class Piano 4 | 1 |

Keyboard majors will substitute MUAC 2694.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUEN XXXX</td>
<td>Large Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 37XX</td>
<td>Methods Course</td>
<td>1</td>
</tr>
<tr>
<td>MUED 2611</td>
<td>Computer Applications in Music Education</td>
<td>2</td>
</tr>
<tr>
<td>EDFN 1501</td>
<td>Reading Application in Content Areas, Secondary Years</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>
Prior to student teaching, students are required to complete the
MUED 4844A
Spring
MUED 4822 Teaching Choral Music 2
MUEN XXXX Large Ensemble 1
MUHL 3774 Music History and Literature 4 3
General Education Elective 3

If students wish to student teach in the spring of 4th year, all
convocation requirements must be completed by the end of 3rd
semester.

Spring
Instrument or Voice 3702 2
MUTC 3710 Orchestration and Arranging 3
MUED 4824 Music Teaching in the High School 2
MUED 5880 Vocal Pedagogy 1
MUEN XXXX Large Ensemble 1
MUHL 3774 Music History and Literature 4 3
General Education Elective 3

Year 4

Fall
Senior Recital MUST be completed by the end of this semester.
Application to student teach is due by September 15. Placement
meeting with Music Education Coordinator must occur before
September 15.
Instrument or Voice 4801 (with Senior Recital)** 2
MUED 4825 Music Teaching in the High School 2
MUED 5880 Vocal Pedagogy 1
MUEN XXXX Chamber Ensemble 1
EDFN 3708 Education and Society 3
Natural Science + Lab 4
General Education Elective 3

Spring
MUED 4842A Student Teaching Seminar for Music Education 2
MUED 4844 Supervised Student Teaching: Music (K-12) 10

**Prior to student teaching, students are required to complete the
Senior Recital.

Total Semester Hours 132-136

• Students will perform a public recital in their applied area.
• Students will analyze music, discriminate pitch, harmony, and rhythm and
perform harmonic progressions at the piano.
• Students will demonstrate critical thinking about the various historical
periods, cultural contexts, and social forces that influence musical activity.
• Students will demonstrate basic keyboard proficiency including scales,
arpeggios, harmonization, repertoire, transpositions, and score reading.
• Students will demonstrate effective planning, teaching, and assessment
appropriate to K-12 students in music settings.

Bachelor of Music with an Emphasis in Music Recording Track

Track of the BM Performance degree gives students the opportunity for
intensive study in music production while gaining professional skills as a
performing musician.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>MUTC 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>2-3</td>
</tr>
<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td>2-3</td>
</tr>
<tr>
<td>MUTC 1531N</td>
<td>Music Theory 1 Intensive</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 1532N</td>
<td>Music Theory 2 Intensive</td>
<td>3</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td>1-2</td>
</tr>
</tbody>
</table>

GENERAL EDUCATION REQUIREMENTS

Arts and Humanities (2 courses)

• Satisfied by 6 SH of MUHL 3773 and 3774, which are required in the major.

Natural Sciences (2 courses, 1 with lab)

• 7

Social Science (2 courses)

• 6

Social and Personal Awareness (need 1 additional course)

• 3

One course satisfied by 3 SH of MUHL 3771, which is required in the major.

CORE MUSIC REQUIREMENTS

Music Theory (19-21 hours). Music Theory and Aural Theory of the same
level must be taken concurrently.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTC 1541</td>
<td>Aural Theory 1</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td>2-3</td>
</tr>
<tr>
<td>or MUTC 1532N</td>
<td>Music Theory 2 Intensive</td>
<td>3</td>
</tr>
</tbody>
</table>

Students who score below 80% on the Theory Placement Exam will
substitute MUTC 1531N for MUTC 1531

Students who score below 80% on the Theory Placement Exam will
substitute MUTC 1532N for MUTC 1532

Keyboard Majorship (4 hour)

MUAC 1581 | Class Piano 1 | 1 |

Keyboard majors will substitute MUAC 2691

MUAC 1582 | Class Piano 2 | 1 |

Keyboard majors will substitute MUAC 2692

Music students must attend 36 convocations as a graduation requirement.
Music students must attend 30 Dana School of Music concerts or recitals.
Applied lesson must be taken concurrently with large ensemble each
semester.

A student may satisfy the MATH requirement by passing this course
or one of the following alternate courses or its equivalent: MATH 1510,
MATH 1511, MATH 1513, MATH 1552, MATH 1571, MATH 1581H, MATH
1585H, MATH 2652, MATH 2665, MATH 2670, MATH 2686H, PHIL 2619, or
STAT 2601.
### Music History and Literature (12 hours)

- **MUHL 3771** Music History and Literature 1 — 3
- **MUHL 3773** Music History and Literature 3 — 3
- **MUHL 3774** Music History and Literature 4 — 3
- **MUHL 3775** Jazz History — 3

### Conducting (3 hours)

- **MUCO 3715** Choral and Instrumental Conducting — 3

### Applied Lessons (14 hours)

- **Applied Lessons 1501** — 2
- **Applied Lessons 1502** — 2
- **Applied Lessons 2601** — 2
- **Applied Lessons 2602** — 2
- **Applied Lessons 3701** — 2
- **Applied Lessons 3702** — 2
- **Applied Lesson 4801 (with Senior Recital)** — 2

### Ensembles (7 hours)

- **Large Ensembles (guitar majors substitute Guitar Ensemble)** — 5
- **Small Ensembles** — 2

### Audio Engineering and Technology Focus (19 hours)

- **MUIN 1561** Music Recording Workshop — 4
- **MUIN 3762** Digital Sound Production — 2
- **MUIN 3763** Digital Recording and Editing — 2
- **MUIN 3764** Advanced Microphone Techniques — 2
- **MUIN 3765** Advanced Recording Techniques — 2
- **MUIN 4866** Recording Internship — 3
- **MUIN 4867** Senior Project — 4

### Music Electives (13 hours) — 13

- **MUEN 00XX** (suggested music elective) — 1

### Total Semester Hours — 120-124

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with ensemble each semester.

### Year 1

#### Fall

- **YSU 1500** Success Seminar — 1
- **ENGL 1550** or **ENGL 1549** Writing 1 or Writing 1 with Support — 3-4
- **MUTC 1531** Music Theory 1 or **MUTC 1531N** Music Theory 1 Intensive — 2-3

**Semester Hours** — 12-15

#### Spring

- **ENGL 1551** Writing 2 — 3
- **MUTC 1532** Music Theory 2 or **MUTC 1532N** Music Theory 2 Intensive — 2-3

**Semester Hours** — 12-15

### Year 2

#### Fall

- **CMST 1545** Communication Foundations — 3
- **MUTC 2631** & **MUTC 2641** Music Theory 3 and Aural Theory 3 — 4
- **MUAC 3781** Jazz Class Piano 1 — 1
- **Applied Lessons 2601** — 2
- **MUEN 00XX** — 1
- **MUEN 00XX (suggested music elective)** — 1
- **MUHL 2622** Popular Music in America (suggested music elective) — 3
- **MUIN 3762** Digital Sound Production — 2

**Semester Hours** — 17

#### Spring

- **MATH 2623** Quantitative Reasoning — 3
- **MUTC 2632** & **MUTC 2642** Music Theory 4 and Aural Theory 4 — 4
- **MUAC 3782** Jazz Class Piano 2 — 1
- **Applied Lessons 2602** — 2
- **MUEN 00XX** — 1
- **MUHL 2618** Rock n’ Roll to Rock (suggested music elective) — 3
- **MUIN 3763** Digital Recording and Editing — 2

**Semester Hours** — 16

### Year 3

#### Fall

- **MUTC 1542** Aural Theory 2 — 2
- **MUAC 1582** Class Piano 2 — 1
- **MUEN 00XX** — 1
- **MUHL 2622**Popular Music in America (suggested music elective) — 3
- **MUIN 3764** Advanced Microphone Techniques — 2

**Semester Hours** — 17

#### Spring

- **MUHL 3773** Music History and Literature 3 — 3

**Semester Hours** — 14

### Year 4

#### Fall

- **General Education Electives** — 6
- **MUTC 3750** Analytical Techniques — 3
- **MUHL 3771** Music History and Literature 1 — 3
- **Applied Lessons 3701** — 2
- **MUEN 00XX** — 1
- **MUIN 3764** Advanced Microphone Techniques — 2

**Semester Hours** — 17

- *MUHL 3775 is offered Spring semester of odd years (e.g., 2021, 2023, 2025)*
- *If MUHL 3775 is not offered in this semester, take 3-credit Music Elective*
Bachelor of Music in Music Performance, Instrumental Track

**Learning Outcomes**

The student learning outcomes for the major in music are as follows:

- Students will perform a public recital in their applied area.
- Students will analyze music, discriminate pitch, harmony, and rhythm and perform harmonic progressions at the piano.
- Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.
- Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.
- Students will record, edit, and produce music.

**Bachelor of Music in Music Performance, Instrumental Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
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<tr>
<td><strong>GENERAL EDUCATION REQUIREMENTS</strong></td>
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</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
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<tr>
<td>Arts and Humanities (2 courses)</td>
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<tr>
<td>Satisfied by 6 hours of MUHL 3772, 3773, or 3774, which are required in the major.</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab)</td>
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<tr>
<td>Social Science (2 courses)</td>
<td>6</td>
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</tr>
<tr>
<td>Social and Personal Awareness (need 1 additional course)</td>
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<tr>
<td>One course satisfied by 3 Sh of MUHL 3771, which is required in the major.</td>
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<tr>
<td><strong>CORE MUSIC REQUIREMENTS</strong></td>
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<tr>
<td>Music Theory (19-21 hours). Music Theory and Aural Theory of the same level must be taken concurrently.</td>
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</tr>
<tr>
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<td>or MUTC 1532</td>
<td>Music Theory 2</td>
<td>2-3</td>
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<td>Music Theory 2 Intensive</td>
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**Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531**

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<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
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<tr>
<td>or MUTC 1532N</td>
<td>Music Theory 2 Intensive</td>
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</tbody>
</table>

**Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532**

<table>
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<tr>
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<tbody>
<tr>
<td>MUTC 1542</td>
<td>Aural Theory 2</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 2641</td>
<td>Aural Theory 3</td>
<td>2</td>
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<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 2642</td>
<td>Aural Theory 4</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 3750</td>
<td>Analytical Techniques</td>
<td>3</td>
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**Keyboard Musicianship (4 hours)**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MUAC 1581</td>
<td>Class Piano 1</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 1582</td>
<td>Class Piano 2</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 2681</td>
<td>Class Piano 3</td>
<td>1</td>
</tr>
<tr>
<td>or MUAC 3782</td>
<td>Jazz Class Piano 1</td>
<td></td>
</tr>
<tr>
<td>MUAC 2682</td>
<td>Class Piano 4</td>
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<tr>
<td>or MUAC 3782</td>
<td>Jazz Class Piano 2</td>
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**Music History and Literature (12 hours)**

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<tr>
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<tbody>
<tr>
<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
<td>3</td>
</tr>
<tr>
<td>MUHL 3772</td>
<td>Music History and Literature 2</td>
<td>3</td>
</tr>
<tr>
<td>MUHL 3773</td>
<td>Music History and Literature 3</td>
<td>3</td>
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<tr>
<td>MUHL 3774</td>
<td>Music History and Literature 4</td>
<td>3</td>
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**Conducting (3 hours)**

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTC 3715</td>
<td>Choral and Instrumental Conducting</td>
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**APPLIED LESSONS (28 hours)**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>Applied Lesson 1501</td>
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<tr>
<td>Applied Lesson 1502</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Applied Lesson 2605</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Applied Lesson 2606</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Applied Lesson 3705</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Applied Lesson 3706 (with Junior Recital)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Applied Lesson 4805</td>
<td>4</td>
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</tr>
<tr>
<td>Applied Lesson 4806 (with Senior Recital)</td>
<td>4</td>
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**ENSEMBLES (10 hours)**

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MUEN 00XX Large Ensembles (guitar majors substitute Guitar Ensemble)</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>MUEN 00XX Chamber Ensembles</td>
<td>2</td>
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**ELECTIVES (9 hours)**

<table>
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<tr>
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<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>MUTC/MUHL - Upper Division Theory and History Electives (must represent both areas)</td>
<td>9</td>
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**MUSIC ELECTIVES**

<table>
<thead>
<tr>
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<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
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**Total Semester Hours**

120-124

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with a large ensemble each semester.

**Year 1**

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>COURSE</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
<td></td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td><strong>Music Electives</strong></td>
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<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>2-3</td>
<td></td>
</tr>
<tr>
<td>or MUTC 1531N</td>
<td>Music Theory 1 Intensive</td>
<td></td>
<td></td>
</tr>
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</table>

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with a large ensemble each semester.
Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUTC 1541</td>
<td>Aural Theory 1</td>
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<tr>
<td>MUAC 1581</td>
<td>Class Piano 1</td>
<td>1</td>
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<tr>
<td>Applied Lessons 1501</td>
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<tr>
<td>MUEN 00XX</td>
<td>General Education Elective</td>
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</table>

Semester Hours 15-18

Year 2

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
<td>4</td>
</tr>
</tbody>
</table>
& MUTC 2641  | and Aural Theory 3             |      |
| MUAC 2681  | Class Piano 3                  | 1    |
or MUAC 3781 | or Jazz Class Piano 1          |      |
| MUHL 3771  | Music History and Literature 1 | 3    |
| Applied Lessons 2605 |                    | 4    |
| MUEN 00XX  |                               | 1    |

Semester Hours 16

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>4</td>
</tr>
</tbody>
</table>
& MUTC 2642  | and Aural Theory 4             |      |
| MUAC 2682  | Class Piano 4                  | 1    |
or MUAC 3782 | or Jazz Class Piano 2          |      |
| MUHL 3772  | Music History and Literature 2 | 3    |
| Applied Lessons 2606 |                    | 4    |
| MUEN 00XX  |                               | 1    |

Semester Hours 16

Year 3

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Natural Science + Lab</td>
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<tr>
<td>MUTC 3750</td>
<td>Analytical Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUHL 3773</td>
<td>Music History and Literature 3</td>
<td>3</td>
</tr>
<tr>
<td>Applied Lessons 3705</td>
<td></td>
<td>4</td>
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<tr>
<td>MUEN 00XX</td>
<td></td>
<td>1</td>
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<tr>
<td>MUEN 00XX Chamber Ensemble</td>
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Semester Hours 16

Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>General Education Elective</td>
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<td>3</td>
</tr>
<tr>
<td>MUHL 3774</td>
<td>Music History and Literature 4</td>
<td>3</td>
</tr>
<tr>
<td>Applied Lessons 3706 (with Junior Recital)</td>
<td></td>
<td>4</td>
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<tr>
<td>MUEN 00XX</td>
<td></td>
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<tr>
<td>MUEN 00XX Chamber Ensemble</td>
<td></td>
<td>1</td>
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</table>

Semester Hours 16

Learning Outcomes

The student learning outcomes for the major in music are as follows:

- Students will perform a public recital in their applied area.
- Students will analyze music, discriminate pitch, harmony, and rhythm and perform harmonic progressions at the piano.
- Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.
- Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.

Bachelor of Music in Performance, Jazz Track

COURSE TITLE S.H.

FIRST YEAR REQUIREMENT - STUDENT SUCCESS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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</tbody>
</table>
or SS 1500  | Strong Start Success Seminar   |      |
or HONR 1500| Intro to Honors                 |      |

GENERAL EDUCATION REQUIREMENTS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
</tbody>
</table>
or ENGL 1549 | Writing 1 with Support       |      |
| ENGL 1551  | Writing 2                      | 3    |
| CMST 1545  | Communication Foundations      | 3    |
| Mathematics Requirement |                    | 3    |
| Arts and Humanities (2 courses) |            | 0    |

Satisfied by 6 hours MUHL 3772, 3773, or 3774, two of which are required in the major.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sciences (2 courses, 1 with a lab)</td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>Social Science (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Social and Personal Awareness (need 1 additional class)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

One course satisfied by 3 s.h. of MUHL 3771, which is required in the major.

CORE MUSIC REQUIREMENTS

MUCO 3715  Choral and Instrumental Conducting  3
Music Theory (16-18 hours). Music Theory and Aural Theory of the same level must be taken concurrently.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>2-3</td>
</tr>
<tr>
<td>or MUTC 1531N</td>
<td>Music Theory 1 Intensive</td>
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</tr>
<tr>
<td></td>
<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531</td>
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</tr>
<tr>
<td>MUTC 1541</td>
<td>Aural Theory 1</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td>2-3</td>
</tr>
<tr>
<td>or MUTC 1532N</td>
<td>Music Theory 2 Intensive</td>
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<tr>
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<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532</td>
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<tr>
<td>MUTC 1542</td>
<td>Aural Theory 2</td>
<td>2</td>
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<tr>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
<td>2</td>
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<tr>
<td>MUTC 2641</td>
<td>Aural Theory 3</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 2642</td>
<td>Aural Theory 4</td>
<td>2</td>
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Keyboard Musicianship (4 hours)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 1581</td>
<td>Class Piano 1</td>
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<tr>
<td>Keyboard majors will substitute MUAC 2691</td>
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<tr>
<td>MUAC 1582</td>
<td>Class Piano 2</td>
<td>1</td>
</tr>
<tr>
<td>Keyboard majors will substitute MUAC 2692</td>
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<tr>
<td>MUAC 3781</td>
<td>Jazz Class Piano 1</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 3782</td>
<td>Jazz Class Piano 2</td>
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Music History and Literature (12 hours)

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
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</tr>
<tr>
<td>Choose two courses from MUHL 3772 Music History and Literature 2, MUHL 3773 Music History and Literature 3, or MUHL 3774 Music History and Literature 4</td>
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<tr>
<td>MUHL 3775</td>
<td>Jazz History</td>
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Conducting (3 hours)

<table>
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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUCO 3715</td>
<td>Choral and Instrumental Conducting</td>
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APPLIED LESSONS (22 hours)

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<tbody>
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<td>Applied Lesson 1501</td>
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<td>Applied Lesson 1502</td>
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<td>Applied Lesson 2603</td>
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<td>Applied Lesson 2604</td>
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<td>Applied Lesson 3703</td>
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<tr>
<td>Applied Lesson 3704 (with Junior Recital)</td>
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<td>Applied Lesson 4803</td>
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<tr>
<td>Applied Lesson 4804 (with Senior Recital)</td>
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ENSEMBLES (10 hours)

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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUEN 0023</td>
<td>Jazz Ensemble</td>
<td>5</td>
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<tr>
<td>MUEN 0030</td>
<td>Jazz Combo (or MUEN 0013 Contemporary Ensembles)</td>
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JAZZ EMPHASIS (19 hours)

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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MUAC 3735</td>
<td>Jazz Methods</td>
<td>1</td>
</tr>
<tr>
<td>MUTC 3712</td>
<td>Jazz Arranging 1</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 3713</td>
<td>Jazz Arranging 2</td>
<td>3</td>
</tr>
<tr>
<td>MUAC 2667</td>
<td>Jazz Improvisation 1</td>
<td>3</td>
</tr>
<tr>
<td>MUAC 2668</td>
<td>Jazz Improvisation 2</td>
<td>3</td>
</tr>
<tr>
<td>MUAC 4867</td>
<td>Jazz Improvisation 3</td>
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<td>MUAC 4868</td>
<td>Jazz Improvisation 4</td>
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<tr>
<td>MUHL/MUTC - Upper DivisionTheory or History Elective (3 hours)</td>
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Music Electives (2 hours)

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<th>Course Name</th>
<th>Credits</th>
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</table>

Total Semester Hours 120-124

• Music students must attend 36 convocations as a graduation requirement.
• Music students must attend 30 Dana School of Music concerts or recitals.
• Applied lesson must be taken concurrently with an ensemble.

Year 1

<table>
<thead>
<tr>
<th>Semester</th>
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<th>Course Name</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td></td>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td>MUAC 1581</td>
<td>Class Piano 1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Applied Lesson 1501</td>
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<td>2</td>
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<tr>
<td></td>
<td>MUEN 0023</td>
<td>Jazz Ensemble</td>
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Semester Hours 12-15

Spring

<table>
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<th>Course Name</th>
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<tbody>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
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<tr>
<td>General Education Elective</td>
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<td>3</td>
</tr>
<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td>2-3</td>
</tr>
<tr>
<td>or MUTC 1532N</td>
<td>or Music Theory 2 Intensive</td>
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</tr>
<tr>
<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532</td>
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<tr>
<td>MUTC 1542</td>
<td>Aural Theory 2</td>
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<tr>
<td>MUAC 1582</td>
<td>Class Piano 2</td>
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</tr>
<tr>
<td>Keyboard majors will substitute MUAC 2692</td>
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<tr>
<td>Applied Lesson 1502</td>
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<tr>
<td>MUEN 0023</td>
<td>Jazz Ensemble</td>
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Semester Hours 17-18

Year 2

<table>
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<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall</td>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
<td>4</td>
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<tr>
<td></td>
<td>&amp; MUTC 2641</td>
<td>and Aural Theory 3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MUAC 3781</td>
<td>Jazz Class Piano 1</td>
<td>1</td>
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<tr>
<td></td>
<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
<td>3</td>
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<tr>
<td></td>
<td>Applied Lesson 2603</td>
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<td></td>
<td>MUEN 0023</td>
<td>Jazz Ensemble</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>&amp; MUEN 0030</td>
<td>and Jazz Combo</td>
<td>2</td>
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<tr>
<td></td>
<td>MUAC 2667</td>
<td>Jazz Improvisation 1</td>
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Semester Hours 16

Spring

<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>4</td>
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<tr>
<td>&amp; MUTC 2642</td>
<td>and Aural Theory 4</td>
<td></td>
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<tr>
<td>MUAC 3782</td>
<td>Jazz Class Piano 2</td>
<td>1</td>
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<td>MUHL 3772</td>
<td>Music History and Literature 2</td>
<td>3</td>
</tr>
<tr>
<td>or MUHL 3774</td>
<td>or Music History and Literature 4</td>
<td></td>
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<tr>
<td>Applied Lesson 2604</td>
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<tr>
<td>MUEN 0023</td>
<td>Jazz Ensemble</td>
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<tr>
<td>&amp; MUEN 0030</td>
<td>and Jazz Combo</td>
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<tr>
<td>MUAC 2668</td>
<td>Jazz Improvisation 2</td>
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Semester Hours 16
Bachelor of Music in Performance, Piano Track

**Course Title**

**S.H.**

**First Year Requirement - Student Success**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
</tr>
</tbody>
</table>

**General Education Requirements**

| ENGL 1550 | Writing 1 |
| or ENGL 1549 | Writing 1 with Support |
| ENGL 1551 | Writing 2 |
| CMST 1545 | Communication Foundations |
| Mathematics Requirement | 3 |

**Arts and Humanities (2 courses)**

- Satisfied by 6 SH of MUHL 3772, 3773, or 3774, which are required in the major.
- Natural Sciences (2 courses, 1 with lab) |
- Social Science (2 courses) |
- Social and Personal Awareness (2 courses) |
  - One course satisfied by 3 SH of MUHL 3771, which is required in the major. Need one additional SPA course.

**Core Music Requirements**

Music Theory (19-21 hours). Music Theory and Aural Theory of the same level must be taken concurrently.

| MUTC 1531 | Music Theory 1 |
| or MUTC 1531N | Music Theory 1 Intensive |
| MUTC 1541 | Aural Theory 1 |
| or MUTC 1532N | Music Theory 2 Intensive |
| Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531 |
| Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532 |

**Keyboard Musicianship (4 hours)**

| MUAC 2691 | Professional Piano Skills 1 |
| MUAC 2692 | Professional Piano Skills 2 |
| MUAC 2693 | Professional Piano Skills 3 |
| MUAC 2694 | Professional Piano Skills 4 |

**Music History and Literature (12 hours)**

| MUHL 3771 | Music History and Literature 1 |
| MUHL 3772 | Music History and Literature 2 |
| MUHL 3773 | Music History and Literature 3 |
| MUHL 3774 | Music History and Literature 4 |

**Conducting (3 hours)**

| MUCO 3715 | Choral and Instrumental Conducting |

**Ensembles (8 hours)**

| MUEN 0002, MUEN 0004, MUEN 0005, MUEN 0007, MUEN 0008, MUEN 0023, MUEN 0025 | MUEN 0027 (*) |

**Learning Outcomes**

The student learning outcomes for the major in music are as follows:

- Students will perform a public recital in their applied area.
- Students will attend 36 convocations as a graduation requirement.
- Applied lesson must be taken concurrently with an ensemble.
- Music students must attend 30 Dana School of Music concerts or recitals.
*Please consult with your applied teacher regarding large ensemble participation.

**Piano Chamber Ensembles/Chamber Ensembles** 4

*Please consult with your applied teacher regarding piano chamber ensemble participation.

**PIANO EMPHASIS**

**Piano Applied Lessons and Support Courses (33 hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PIAN 1501</td>
<td>Piano</td>
<td>2</td>
</tr>
<tr>
<td>PIAN 1502</td>
<td>Piano</td>
<td>2</td>
</tr>
<tr>
<td>PIAN 2605</td>
<td>Piano</td>
<td>4</td>
</tr>
<tr>
<td>PIAN 2606</td>
<td>Piano</td>
<td>4</td>
</tr>
<tr>
<td>PIAN 3705</td>
<td>Piano</td>
<td>4</td>
</tr>
<tr>
<td>PIAN 3706</td>
<td>Piano (with Junior Recital)</td>
<td>4</td>
</tr>
<tr>
<td>PIAN 4805</td>
<td>Piano</td>
<td>4</td>
</tr>
<tr>
<td>PIAN 4806</td>
<td>Piano (with Senior Recital)</td>
<td>4</td>
</tr>
<tr>
<td>VOIC 1500A</td>
<td>Voice Methods</td>
<td>1</td>
</tr>
<tr>
<td>MUAC 2691</td>
<td>Professional Piano Skills 1</td>
<td>1</td>
</tr>
<tr>
<td>MUEN 00XX</td>
<td>1</td>
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</table>

**PIANO EMPHASIS (3 hours)** 3

**MUAC 2693** Professional Piano Skills 3 1

**MUHL 3771** Music History and Literature 1 3

**PIAN 2605** Piano 4

**MUEN 00XX** 1

**Fall**

**Year 1**

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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>or Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>or Intro to Honors</td>
<td></td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>4-5</td>
</tr>
<tr>
<td>&amp; MUTC 1541</td>
<td>Aural Theory 1</td>
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<tr>
<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531</td>
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</tr>
<tr>
<td>MUAC 2691</td>
<td>Professional Piano Skills 1</td>
<td>1</td>
</tr>
<tr>
<td>PIAN 1501</td>
<td>Piano</td>
<td>2</td>
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**Semester Hours** 12-15

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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>General Education Electives</td>
<td>6</td>
<td></td>
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<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td>4-5</td>
</tr>
<tr>
<td>&amp; MUTC 1542</td>
<td>Aural Theory 2</td>
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<tr>
<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1532N for MUTC 1532</td>
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</tr>
<tr>
<td>MUAC 2692</td>
<td>Professional Piano Skills 2</td>
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<tr>
<td>PIAN 1502</td>
<td>Piano</td>
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**Year 2**

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<tr>
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<th>Course Title</th>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
<td>4</td>
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<td>&amp; MUTC 2641</td>
<td>and Aural Theory 3</td>
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<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 2693</td>
<td>Professional Piano Skills 3</td>
<td>1</td>
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<tr>
<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
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<tr>
<td>PIAN 2605</td>
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<td>MUEN 00XX</td>
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**Spring**

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<th>Hours</th>
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<tbody>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>4</td>
</tr>
<tr>
<td>&amp; MUTC 2642</td>
<td>and Aural Theory 4</td>
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<tr>
<td>MUAC 2694</td>
<td>Professional Piano Skills 4</td>
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<td>MUHL 3772</td>
<td>Music History and Literature 2</td>
<td>3</td>
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<tr>
<td>PIAN 2606</td>
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<tr>
<td>MUEN 00XX</td>
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**Semester Hours** 16

<table>
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<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUAC 3759</td>
<td>Voice Methods</td>
<td>1</td>
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<tr>
<td>MUED 5858</td>
<td>Piano Pedagogy</td>
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**MUAC/MUHL - Upper Division Theory and History Electives (must represent both areas) (9 hours)** 9

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>VOIC 1500A</td>
<td>Voice Methods</td>
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<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
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<td>MUTC/MUHL</td>
<td>Music History and Literature 3</td>
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<tr>
<td>PIAN 3705</td>
<td>Piano</td>
<td>4</td>
</tr>
<tr>
<td>MUEN 0051</td>
<td>Piano Chamber</td>
<td>1</td>
</tr>
<tr>
<td>or MUEN 0031</td>
<td>or Chamber Music</td>
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**Semester Hours** 16

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PIAN 4805</td>
<td>Piano</td>
<td>4</td>
</tr>
<tr>
<td>MUEN 0051</td>
<td>Piano Chamber</td>
<td>1</td>
</tr>
<tr>
<td>or MUEN 0031</td>
<td>or Chamber Music</td>
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**Semester Hours** 16

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>PIAN 4805</td>
<td>Piano (with Senior Recital)</td>
<td>4</td>
</tr>
<tr>
<td>MUEN 0051</td>
<td>Piano Chamber</td>
<td>1</td>
</tr>
<tr>
<td>or MUEN 0031</td>
<td>or Chamber Music</td>
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</table>

**Music Upper Division Electives** 3

**Total Semester Hours** 120-124

- Music students must attend 36 convocations as a graduation requirement.
- Music students must attend 30 Dana School of Music concerts or recitals.
- Applied lesson must be taken concurrently with ensemble each semester.

**Learning Outcomes**

The student learning outcomes for the major in music are as follows:
• Students will perform a public recital in their applied area.
• Students will analyze music, discriminate pitch, harmony, and rhythm and perform harmonic progressions at the piano.
• Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.
• Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.

**Bachelor of Music in Performance, Voice Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
<tr>
<td><strong>GENERAL EDUCATION REQUIREMENTS</strong></td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Arts and Humanities (2 courses)</strong></td>
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<tr>
<td>Satisfied by 6 hours of MUHL 3772, or 3773, or 3774 which are required in the major.</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<tr>
<td>Social Science (2 courses)</td>
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<tr>
<td>Social and Personal Awareness (2 courses)</td>
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</tr>
<tr>
<td>One course satisfied by 3 SH of MUHL 3771, which is required in the major. Need one additional SPA course.</td>
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<tr>
<td><strong>CORE MUSIC REQUIREMENTS</strong></td>
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<tr>
<td>Music Theory (19-21 hours). Music Theory and Aural Theory of the same level must be taken concurrently.</td>
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</tr>
<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
<td>2-3</td>
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<tr>
<td>or MUTC 1531N</td>
<td>Music Theory 1 Intensive</td>
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<tr>
<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531</td>
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<tr>
<td>MUTC 1541</td>
<td>Aural Theory 1</td>
<td>2</td>
</tr>
<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td>2-3</td>
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<td>Music Theory 2 Intensive</td>
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<tr>
<td>MUTC 1542</td>
<td>Aural Theory 2</td>
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<td>MUTC 2631</td>
<td>Music Theory 3</td>
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<td>MUTC 2641</td>
<td>Aural Theory 3</td>
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<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td>2</td>
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<td>MUTC 2642</td>
<td>Aural Theory 4</td>
<td>2</td>
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<tr>
<td>MUTC 3750</td>
<td>Analytical Techniques</td>
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<tr>
<td><strong>Keyboard Musicianship (4 hours)</strong></td>
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<tr>
<td>MUAC 1581</td>
<td>Class Piano 1</td>
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<td>MUAC 1582</td>
<td>Class Piano 2</td>
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<tr>
<td>MUAC 2681</td>
<td>Class Piano 3</td>
<td>1</td>
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<tr>
<td>or MUAC 3781</td>
<td>Jazz Class Piano 1</td>
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<tr>
<td>MUAC 2682</td>
<td>Class Piano 4</td>
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<td>Jazz Class Piano 2</td>
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<td><strong>Music History and Literature (12 hours)</strong></td>
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<td>MUHL 3771</td>
<td>Music History and Literature 1</td>
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<tr>
<td>MUHL 3772</td>
<td>Music History and Literature 2</td>
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<td>MUHL 3773</td>
<td>Music History and Literature 3</td>
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<td>MUHL 3774</td>
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<tr>
<td><strong>Conducting (3 hours)</strong></td>
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<tr>
<td>MUTC 3715</td>
<td>Choral and Instrumental Conducting</td>
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<td><strong>VOICE EMPHASIS REQUIREMENTS</strong></td>
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<td><strong>Applied Lessons and Related Courses (28 hours)</strong></td>
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<tr>
<td>VOIC 1501</td>
<td>Voice</td>
<td>2</td>
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<td>VOIC 1502</td>
<td>Voice</td>
<td>2</td>
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<td>VOIC 2605</td>
<td>Voice</td>
<td>2</td>
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<tr>
<td>VOIC 2606</td>
<td>Voice</td>
<td>2</td>
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<td>VOIC 3705</td>
<td>Voice</td>
<td>4</td>
</tr>
<tr>
<td>VOIC 3706</td>
<td>Voice (with Junior Recital)</td>
<td>4</td>
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<tr>
<td>VOIC 4805</td>
<td>Voice</td>
<td>4</td>
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<tr>
<td>VOIC 4806</td>
<td>Voice (with Senior Recital)</td>
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<td>MUED 5880</td>
<td>Vocal Pedagogy</td>
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<td>MUAC 1556</td>
<td>Singer’s Diction: English/Italian</td>
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<tr>
<td>MUAC 1557</td>
<td>Singer’s Diction: German</td>
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<tr>
<td>MUAC 1558</td>
<td>Singer’s Diction: French</td>
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<tr>
<td>Large Ensembles</td>
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<td></td>
</tr>
<tr>
<td><strong>FOREIGN LANGUAGE (16 hours)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Two semesters from two of the following languages: Italian, French, or German</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>ITAL 1505</td>
<td>Elementary Italian</td>
<td></td>
</tr>
<tr>
<td>ITAL 1506</td>
<td>Elementary Italian 2</td>
<td></td>
</tr>
<tr>
<td>FRNC 1505</td>
<td>Elementary French</td>
<td></td>
</tr>
<tr>
<td>FRNC 1506</td>
<td>Intermediate French</td>
<td></td>
</tr>
<tr>
<td>GRMN 1550</td>
<td>Elementary German</td>
<td></td>
</tr>
<tr>
<td>GRMN 2600</td>
<td>Intermediate German</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td>125-129</td>
<td></td>
</tr>
</tbody>
</table>

• Music students must attend 36 convocations as a graduation requirement.
• Music students must attend 30 Dana School of Music concerts or recitals.
• Applied lesson must be taken concurrently with large ensemble each semester.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
</tr>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
</tr>
<tr>
<td>MUTC 1531</td>
<td>Music Theory 1</td>
</tr>
<tr>
<td>or MUTC 1531N</td>
<td>Music Theory 1 Intensive</td>
</tr>
<tr>
<td>Students who score below 80% on the Theory Placement Exam will substitute MUTC 1531N for MUTC 1531</td>
<td></td>
</tr>
<tr>
<td>MUTC 1541</td>
<td>Aural Theory 1</td>
</tr>
<tr>
<td>MUTC 1542</td>
<td>Aural Theory 2</td>
</tr>
<tr>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
</tr>
<tr>
<td>MUTC 2641</td>
<td>Aural Theory 3</td>
</tr>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
</tr>
<tr>
<td>MUTC 2642</td>
<td>Aural Theory 4</td>
</tr>
<tr>
<td>MUTC 3750</td>
<td>Analytical Techniques</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
</tr>
</tbody>
</table>

**Semester Hours** 13-16
### Minor in Music

The minor in Music provides opportunities to develop musical knowledge and skills at a basic collegiate level. Evolving economic, demographic, and technological conditions provide increased incentive for creativity and leadership in society. (NASM) Students electing applied study and/or ensembles should contact the Dana School of Music Office for audition information.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Lower-Division Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUTC 1531N</td>
<td>Music Theory 1 Intensive</td>
<td>4</td>
</tr>
<tr>
<td>&amp; MUTC 1541</td>
<td>and Aural Theory 1</td>
<td></td>
</tr>
<tr>
<td>Students may take MUTC 1531 instead of MUTC 1531N with permission of the instructor</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Select 8 s.h. from the following:</strong></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>Any Dana School of Music Ensemble (may be repeated for up to 6 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUAC 1500 Minor Applied Study (may be taken twice)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUAC 2600 Minor Applied Study (may be taken twice)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Upper-Division Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUED 2611</td>
<td>Computer Applications in Music Education</td>
<td></td>
</tr>
<tr>
<td>MUHLL 2616</td>
<td>Survey of Jazz</td>
<td></td>
</tr>
<tr>
<td>MUHLL 2617</td>
<td>Film Music</td>
<td></td>
</tr>
<tr>
<td>MUHLL 2618</td>
<td>Rock n’ Roll to Rock</td>
<td></td>
</tr>
<tr>
<td>MUHLL 2619</td>
<td>Music of Non-Western Societies</td>
<td></td>
</tr>
<tr>
<td>MUHLL 2621</td>
<td>Music Literature and Appreciation</td>
<td></td>
</tr>
<tr>
<td>MUHLL 2622</td>
<td>Popular Music in America</td>
<td></td>
</tr>
<tr>
<td>MUTC 1532</td>
<td>Music Theory 2</td>
<td></td>
</tr>
<tr>
<td>MUTC 2631</td>
<td>Music Theory 3</td>
<td></td>
</tr>
<tr>
<td>MUTC 2632</td>
<td>Music Theory 4</td>
<td></td>
</tr>
<tr>
<td>MUHLL 3771</td>
<td>Music History and Literature 1</td>
<td></td>
</tr>
<tr>
<td>MUHLL 3772</td>
<td>Music History and Literature 2</td>
<td></td>
</tr>
<tr>
<td>VOIC 3706</td>
<td>Voice (with Senior Recital)</td>
<td></td>
</tr>
<tr>
<td>MUEN 00XX Large Ensemble</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Learning Outcomes

The student learning outcomes for the major in music are as follows:

- Students will perform a public recital in their applied area.
- Students will analyze music, discriminate pitch, harmony, and rhythm and perform harmonic progressions at the piano.
- Students will demonstrate critical thinking about the various historical periods, cultural contexts, and social forces that influence musical activity.
- Students will demonstrate basic keyboard proficiency including scales, arpeggios, harmonization, repertoire, transpositions, and score reading.
The Doctoral A. and Helen M. Bitonte College of Health and Human Services

Jeffery B. Allen, Dean

For more information, visit The Bitonte College of Health and Human Services (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/).

Overview

In support of the University mission to provide a wide range of educational opportunities in higher education, the Dr. Dominic A. and Helen M. Bitonte College of Health and Human Services assumes a broad focus. That focus entails preparing students for competent practice in positions in both the health and human service professions. The College is committed to excellence in education through the quality programs it provides. To assure continuity and opportunity for health and human service majors, the College has encouraged the development of two-plus-two curricula in several majors that allow students to efficiently progress from associate to baccalaureate degree program completion. Master's degree, a professional doctorate degree program and a Ph.D. in Health Sciences further expand and advance the competencies of graduates in the delivery and administration of health care and human services.

Vision Statement

The Bitonte College of Health and Human Services produces graduates who provide exceptional health and human services to enhance quality of life in regional, national, and global communities.

Mission Statement

The Bitonte College of Health and Human Services will continue to impart knowledge, develop critical thinking, and serve society through holistic, integrative, and quality educational programs. Graduates will achieve a high level of professional competence through scholarly inquiry and transformative experiences to address society's ever-changing demands for healthcare and human services.

Accreditation

- The emergency medical services (EMS) program is accredited by the Commission on Accreditation of Allied Health Education Programs. The EMS program is also accredited by the Ohio Department of Public Safety - Division of EMS (ODPS).
- The dental hygiene program is accredited by the American Dental Association Commission on Dental Accreditation (ADAC).
- The medical laboratory technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).
- The Bachelor of Science in respiratory care program is accredited by the Commission on Accreditation for Respiratory Care (COARC).
- The Dietetics Future Model (MPH-RDN) program and the didactic program in dietetics are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).
- The Bachelor of Science in Applied Science in Exercise Science is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP).
- The Masters of Athletic Training program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE).
- The Entry-level BSN and the online RN-BSN Completion programs are accredited by the Accreditation Commission for Education in Nursing (ACEN) - https://www.acenursing.org.
- The Entry-level BSN, the online RN-BSN program, the MSN program, the Post-Graduate APRN and Post-Master's certificates are accredited by the Commission on Collegiate Nursing Education (CCNE) - https://www.aacn.nursing.org/CCNE/.
- The nurse anesthesia program at both the master’s (MSN) and doctoral (DNP) levels are accredited by the Council on Accreditation of Nurse Anesthesia Education Programs (COA) - https://www.coacna.org.
- The entry-level BSN program is approved by the Ohio Board of Nursing - https://www.nursing.ohio.gov.
- The physical therapy program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE).
- The Long Term Care Administration is accredited by the National Association of Long-Term Care Administrator Boards (NAB).
- The social work program is accredited by the Council on Social Work Education (CSWE).

Unique Requirements of the College

Incoming freshmen entering the College as an undetermined major or pre-major student or requires extensive remedial/developmental course work, or is a student returning to the College after a suspension, the student must complete YSU 1500, Success Seminar, within the student's first 30 semester hours of coursework.

Students need to be aware that many of the programs in the College require a criminal background check. Some require drug testing and a physical fitness examination. In a few cases, there may be a requirement for a psychological evaluation. In addition to programs requiring some or all of the checks/evaluations listed above, some of the agencies where students complete clinical training, internships, or other related activities may also require these checks/evaluations. If you are concerned that you may not be able to complete a program or one of its requirements due to any of these checks/evaluations, please speak with an academic advisor or the chairperson of the department.

Organization/Majors

The Bitonte College of Health and Human Services consists of six departments:
- Criminal Justice and Consumer Sciences
- Graduate Studies in Health and Rehabilitation Sciences
- Health Professions
- Human Services
- Military Science
- The James and Coralie Centofanti School of Nursing

Graduate programs are offered by the Departments of Criminal Justice and Consumer Sciences, Graduate Studies in Health and Rehabilitation Sciences, Nursing, and Human Services. The Northeastern Ohio Universities Master of Public Health program operates through a partnership of YSU, The University of Akron, Cleveland State University, Kent State University, and Northeast Ohio Medical University (NEOMED).

The six departments are listed below with their associate, baccalaureate, master’s and doctoral offerings. Students whose needs are not completely met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (see the Academic Policies and Procedures section).
**Department of Criminal Justice and Consumer Sciences**

- Basic Peace Officer Training Academy (Certificate)
- Criminal Justice (AAS, BSAS, MS) (BSAS and MS - both traditional and online degree completion)
- Fashion (Minor)
- Homeland Security (Certificate - both undergraduate and graduate)
- Hospitality Management Technology (AAS, BSAS)
- Merchandising: Fashion and Interiors (BSAS)

**Department of Health Professions**

- Allied Health (BSAS)
- Applied Gerontology (Undergraduate Certificate)
- Dental Hygiene (BSDH)
- Didactic Program in Dietetics (BSAS)
- Dietetics Future Model (MPH-RDN)
- Emergency Medical Services (AAS)
- Exercise Science (BSAS)
- Exercise Science - Graduate Degree Preparation Track (BSAS)
- Gerontology (BA, MA)
- Wellness (minor only)
- Health Information Systems (Undergraduate Certificate)
- Healthcare Management (Graduate Certificate)
- Long Term Care Administration (BSAS)
- Long Term Care Administration, Completion Track (BSAS)
- Medical Laboratory Technology (AAS)
- Medical Laboratory Science (BSAS)
- Paramedic (Certificate)
- Polysomnography (Certificate)
- Public Health (BSAS)
- Public Health (BSAS)
- Public Health, Environmental Health and Safety (BSAS)
- Respiratory Care (BSRC, MRC)
- Respiratory Care, Completion Track (BSAS)

**Department of Human Services**

- Social Work (BSW, MSW)
- Center for Human Services Development

**Department of Graduate Studies in Health and Rehabilitation Sciences**

- Athletic Training (MAT)
- Health and Human Services
- Health Sciences (Ph.D.)
- Physical Therapy (DPT)
- Public Health (MPH)

**Department of Military Science**

- Military Science (minor only)
- Army ROTC program

**The James and Coralie Centofanti School of Nursing**

Bachelor of Science in Nursing Programs (BSN):
- Entry-level (BSN)
- RN-BSN Online Completion Program for licensed RN's only (BSN)

Master of Science in Nursing Programs (MSN):
- Adult-Gerontology Acute Care Nurse Practitioner (AG-ACNP) (Online)
- Family Nurse Practitioner (FNP) (Online)
- Nurse Education (Online)

Doctor of Nursing Practice (DNP):
- Nurse Anesthesia (in collaboration with St. Elizabeth Health Center School for Nurse Anesthetists, Inc.)

Certificates:
- School Nursing (Post Baccalaureate, Licensure) (Online)
- Nurse Education (Post Master’s) (Online)
- Adult-Gerontology Acute Care Nurse Practitioner (Post Master’s) (Online)
- Family Nurse Practitioner (Post Master’s) (Online)

It is the student's responsibility to satisfy all of the graduation requirements for the degree sought. These consist of:
- The pre-college or preparatory courses for each degree as covered in the Academic Policies and Procedures section.
- The courses and other requirements to be completed in the University as explained in the Academic Policies and Procedures section.
- The specific curriculum requirements of a given program.

Course descriptions can be found in a separate section in the Undergraduate Catalog.

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1. This degree is made available at Cuyahoga Community College and Lorain County Community College in addition to the YSU campus offerings.
2. Restricted admission; see department for further information.
3. For the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act, please see Appendix C of the Undergraduate Catalog.
4. ROTC students are allowed certain modifications of the requirements, as explained in the Military Science section. ROTC programs are offered in agreement with Kent State University.

**Department of Criminal Justice and Consumer Sciences**

(330) 941-3279

**Welcome**

The Department of Criminal Justice and Consumer Sciences offers the following degrees, minors, and certificates:

- Basic Peace Officer Training Academy (Certificate, one semester)
- Criminal Justice (MS, BSAS, AAS, and several minors) [Note: the BSAS and MS are offered in both traditional and online degree completion.]
- Fashion (minor)
• Homeland Security (Certificate, both undergraduate and graduate certificate)
• Hospitality Management (AAS, BSAS)
• Merchandising: Fashion and Interiors (BSAS)

Criminal Justice Program

The four-year degree is built upon a core-track concept with emphasis (track) areas in law enforcement, corrections, legal processes, loss prevention/assets protection, and generalist.

The department also offers eight (8) minors in several emphasis areas.

In each undergraduate area and certificate program, a grade of "C" or better must be received in each required Criminal Justice course.

A graduate program is also available via two methods—traditional face-to-face as well as 100% online both leading to the Master of Science degree in Criminal Justice. Refer to the Graduate Catalog for details.

Admission Policy

Students wishing to transfer into the Department of Criminal Justice and Consumer Sciences must have a cumulative GPA of at least 2.0. Note: individuals with a felony, drug, and/or domestic violence conviction will experience difficulty gaining employment in the criminal justice and forensic sciences or forensic science field. Students with misdemeanor convictions should seek advice from an advisor in the Criminal Justice and Consumer Sciences program. Students with juvenile sex offense convictions should also seek advice.

Retention Policy

The Department of Criminal Justice and Consumer Sciences expects its majors and students enrolled in its courses to engage in legal, ethical, professional, and civil behavior which respects the rights of all persons. Disruptive and inappropriate behavior (as defined in department, college, or University policy) may lead to removal from, or non-acceptance into, the department as a major or as an enrolled student in one of its courses. YSU requires a 2.0 overall GPA in order to graduate.

For more information, visit the Department of Criminal Justice and Consumer Sciences.

Police Academy and Internships

YSU’s Criminal Justice and Consumer Sciences department now offers a full-service police academy, Basic Peace Officer Training Commission. Admission is open to all qualified applicants who meet admission standards of YSU and the Ohio Peace Officer Training Commission. All instructors in the Academy are certified by the Ohio Peace Officer Training Commission and meet all of the requirements to teach in the Basic Police Academy. YSU students who successfully complete the Academy will receive 16 semester hours of credit and a letter from the Ohio Peace Officers Training Commission that will qualify them for certification upon being commissioned. The new curriculum consists of a minimum 558 hours of training. Application packets can be picked up at the Academy Office, Cushwa Hall Room 2361.

YSU’s Criminal Justice and Consumer Sciences has an internship experience that provides students with an opportunity to integrate academic studies with the daily operation of a Criminal Justice agency. Internships also foster the development of networking relationships with practitioners who can assist in procuring future employment. Certain criminal convictions may prohibit students from being eligible for an internship experience. Student interns register for 3 to 12 semester credit hours. Each credit hour requires approximately 45 on-site hours. This program is for seniors. Students can enroll in the Police Academy or an internship, but not both.

Chair

John M. Hazy, Ph.D., Professor, Chair

Professor

Christopher M. Bellas, Ph.D., Associate Professor

Ju Yup Lee, Ph.D., Assistant Professor

Monica Merrill, Ph.D., Assistant Professor

Christian C. Onwudiwe, Ph.D., Assistant Professor

Richard Lee Rogers, Ph.D., Associate Professor

Tacibaht Turel, Ph.D., Professor

Patricia Bergum Wagner, J.D., Associate Professor

Lecturer

Myunghyun Choi, Ph.D., Lecturer

Mark Zetts, M.B.A., Senior Lecturer

Majors

• AAS in Criminal Justice, Law Enforcement Track (p. 336)
• AAS in Criminal Justice, Corrections Track (p. 335)
• AAS in Criminal Justice, Loss Prevention/Assets Protection Track (p. 335)
• BSAS in Criminal Justice, Law Enforcement Track (p. 339)
• BSAS in Criminal Justice, Corrections Track (p. 338)
• BSAS in Criminal Justice, Loss Prevention/Assets Protection Track (p. 342)
• BSAS in Criminal Justice, Legal Process Track (p. 341)
• BSAS in Criminal Justice, Generalist Track (p. 337)
• BSAS in Hospitality Management (p. 351)
• AAS in Hospitality Management (p. 347)
• BSAS in Merchandising: Fashion and Interiors (p. 345)

Minors

• Minor in Criminal Justice - Corrections (p. 344)
• Minor in Criminal Behavior (p. 344)
• Minor in Criminal Justice Ethics (p. 344)
• Minor in Criminal Justice System (p. 344)
• Minor in Criminal/Legal Processes (p. 344)
• Minor in Forensic Science (http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-criminal-justice-forensic-sciences/minor-forensic-science/)
• Minor in Juvenile Justice System (p. 344)
• Minor in Law Enforcement (p. 345)
• Minor in Loss Prevention and Assets Protection (p. 345)

Certificates

• Certificate in Basic Peace Officer Training (p. 343)
• Certificate in Homeland Security (undergraduate) (p. 343)
• Certificate in Homeland Security (graduate) (http://catalog.ysu.edu/graduate/graduate-programs/certificate-homeland-security/)

Criminal Justice
CRJS 1500 Introduction to Criminal Justice 3 s.h.
Overview of the American criminal justice process with emphasis on its constituent foundations, its constitutional limits, and the rights of the individual from arrest through sentencing and release. Gen Ed: Social Science.

CRJS 2601 Policing 3 s.h.
The evolution, structure, and function of modern police organizations; the role of police in a democratic society; the impact of social, political, and economic influences; contemporary practices and controversies. Prereq.: CRJS 1500.

CRJS 2602 Criminal Courts 3 s.h.
Structure and function of criminal courts in American society, perceptions of national commissions; organization, administration, and caseload relationships with appropriate social agencies. Prereq.: CRJS 1500 or permission of instructor.

CRJS 2603 Corrections 3 s.h.
Development and description of the American correctional systems' history and philosophy; the constitutional foundations of its control, and the rights of those within it. Overview of treatment approaches. Prereq.: CRJS 1500.

CRJS 3702 Correctional Strategies 4 s.h.
Contemporary theory, practice, and research findings in the administration of juvenile and adult corrections. Community-based programs, including probation/parole/post-release control; institutional resources examined within the perspectives of prevention, control, and rehabilitation of the criminal offender. Must be a Criminal Justice major or have permission of chairperson. Prereq.: CRJS 2603. Concurrent with: CRJS 3702L.

CRJS 3702L Correctional Strategies Practicum 2 s.h.
Contact, observation, and on-site examination and comparison of community programs and institutional facilities. On-site 6 hours per week for 7 weeks (students are divided into two groups). Prereq.: CRJS 2603; Must be a Criminal Justice major or have permission of chairperson. Coreq.: CRJS 3702.

CRJS 3710 Social Statistics 3 s.h.

CRJS 3712 Criminal Justice Research 3 s.h.
Analysis of the major components of social research, including research design, sampling, measurement, data collection, analysis, and interpretation of findings. Prereq.: CRJS 3710 or STAT 2601 or equivalent.

CRJS 3715 Criminal Justice Management Concepts 3 s.h.
Modern criminal justice management theory; organizational behavior, organizational development, personnel management, executive decision making, supervision problems. Must be a Criminal Justice major or have permission of chairperson. Prereq.: CRJS 2601 or CRJS 2602 or CRJS 2603.

CRJS 3718 Family Law 3 s.h.
Fundamental elements of family law, including premarital contracts, traditional and nontraditional marriages and families, procreation rights, legitimacy and paternity, adoption, divorce and separation, property division and support, custody and termination of parental rights, juvenile law, intra-family tort liability and domestic violence. Prereq.: SOC 1500. Cross-listed: CHFM 3718.

CRJS 3719 Criminal Law 3 s.h.
Development, theories, and purposes of criminal law; elements of a crime, parties to a crime. Prereq.: CRJS 2602.

CRJS 3720 Legal Research 3 s.h.
In-depth study and legal research of case law, statutes, rules and regulations at the federal and state levels. Emphasis on how to find and use primary and secondary authority, how to conduct legal research, in-depth legal writing in areas such as torts, contracts, real estate, and criminal law. Prereq.: CRJS 2602 or permission.

CRJS 3721 Evidence 3 s.h.
Admissibility of evidence, the hearsay rule and its exceptions, opinion evidence, circumstantial evidence, documentary evidence, presumptions, corpus delicti, and evidentiary privileges. Must be a Criminal Justice or Forensic Science major. Prereq.: CRJS 2602.

CRJS 3735 Crime and Delinquency 3 s.h.
Study of the social context of crime in society, including a review of historical theories offered in explanation of criminal behavior. Review of social and psychological factors underlying delinquency, touching on treatment and preventive measures. Prereq.: PSYC 1560 or SOC 1500 or CRJS 3736.

CRJS 3736 Criminal Victimization 3 s.h.
Dynamics of the victim-offender relationships within the Criminal Justice System. Review of advocacy programs including information on victim compensation/assistance programs. Examination of society's attitudes towards victims. Review of current laws advocating for compensation of crime victims. Prereq.: PSYC 1560 or SOC 1500 or CRJS 1500.

CRJS 3740 Criminal Justice Information Systems 3 s.h.
Information theory and practice applied to criminal justice agencies; automated systems in policing, courts, and corrections at the federal, state, and local levels; problems and constitutional constraints. Microcomputer and Internet assignments. Prereq.: CRJS 1500.

CRJS 3751 Prevention Strategies 3 s.h.
Concepts and strategies of crime prevention, the protection of assets in the public and private sectors. Must be CJFS major, or have permission of chairperson. Prereq.: CRJS 2601.

CRJS 3752 Race, Ethnicity and Crime in America 3 s.h.
A critical analysis of current research and theories of racial and ethnic discrimination within the American criminal justice system. The discussion will center on issues relating to: patterns of criminal behavior and victimization, police practices, court processing and sentencing, the death penalty, and correctional programs. Prereq.: CRJS 1500, SOC 1500, or PSYC 1560.

CRJS 3765 Human Relations 3 s.h.
Methods of coping with conflicts arising from law violation intervention; programs for improving interpersonal relations between police and the community. Prereq.: SOC 1500 and PSYC 1560 plus 9 s.h. in CRJS.

CRJS 3777 Ohio Police Officer Basic Training 16 s.h.
The Ohio Attorney General's Office, Peace Officer Training Academy's requirements for peace/police officers are taught in the academy. The training academy at YSU consists of approximately 585 classroom hours (5 days a week, 8 hours a day for 15 weeks, plus a minimum of three weekends). Upon completion, students receive eligibility from the Ohio Peace Officer Training Commission for certification if they successfully pass the physical, skills, and written exams. Prereq.: Senior standing and permission from the Academy Coordinator.

CRJS 3799 Directed Individual Study 1-5 s.h.
Individual study or field research of a special topic related to the criminal justice field. Application must be made to the department prior to registration. May be repeated once for a maximum of 6 s.h. Prereq.: Senior standing and 15 s.h. of CRJS and approval of instructor.
CRJS 4800  Senior Seminar  3 s.h.
Overview of the criminal justice system in the United States. Review of constitutional issues, discussion of contemporary issues. Serves as the criminal justice senior capstone course. Portfolios and resumes prepared, assessment exam. Must be a Criminal Justice major or have permission of chairperson.
Prereq.: Senior standing or permission of chairperson.
Gen Ed: Capstone.

CRJS 4803  Correctional Case Management and Treatment  3 s.h.
Theory and techniques of counseling and interviewing the correctional client including case management. Simulated field and clinical situations to provide experience in interviewing and report writing. Portfolios are resumes prepared, assessment exam. Must be a Criminal Justice major or have permission of chairperson.
Prereq.: CRJS 3702 or CRJS 2603.

CRJS 4807  Criminal Justice Internship  3-12 s.h.
Field experiences in an appropriate criminal justice agency under the direction of qualified and experienced professionals. Grading is CR/NC. May be repeated once for a maximum of 12 s.h. 3-12 s.h.
Prereq.: Senior standing in CRJS and specific emphasis area courses per department guidelines.

CRJS 4848  Loss Prevention and Assets Protection Administration  3 s.h.
Security standards, policy, and regulations at the state and federal levels as they impact on the security operations. Administrative decisions regarding security program. Plant protection, safety and security, credit and insurance investigative procedures. Portfolios and resumes prepared, assessment exam.
Prereq.: CRJS 3751 and senior standing in criminal justice or permission of chairperson.

CRJS 4850  Special Topics in Criminal Justice  3 s.h.
Contemporary issues in criminal justice. Topics are announced prior to enrollment.
Prereq.: Senior standing or permission of instructor.

CRJS 4851  Women and Justice  3 s.h.
Examines the historical development and current women's issues as they related to the justice system. Women's roles in the legal system, prisons (as staff and offenders), victims and perpetrators of violence, policing society and organized crime. Female juvenile delinquency and controversial topics such as abortion and capital punishment.
Prereq.: Senior standing or permission of the chair.

CRJS 4870  Law Enforcement Administration  3 s.h.
Detailed examination of the administration of line and staff services of law enforcement agencies and the role of technology in administration. Portfolios and resumes prepared, assessment exam. Must be a Criminal Justice major or have permission of chairperson.
Prereq.: CRJS 3715 and senior standing.

CRJS 4890  Judicial Administration  3 s.h.
Court management examined in light of structure, judicial responsibility, and inherent power of courts. Case flow, case management, automation, and judicial staffing. Portfolios and resumes prepared, assessment exam.
Prereq.: CRJS 3715 and CRJS 3719 and senior standing in criminal justice or permission of chairperson.

CRJS 5802  Corrections Law and Liability  3 s.h.
Prereq.: CRJS 3702 or CRJS 3719.

CRJS 5820  Advanced Legal Research  3 s.h.
Advanced techniques in conducting legal research using standard reference tools as well as automated on-line services and the Internet. Analysis of findings of legal issues related to criminal justice, report and memoranda writing utilizing the Harvard University System of Citations, legal forms and terminology.
Prereq.: CRJS 3720 or approval of instructor.

CRJS 5825  Criminal Procedures and Constitutional Issues  3 s.h.
Constitutional foundations of the American criminal justice process with special emphasis on recent Supreme Court decisions. Legal and practical applications of the laws of arrest, criminal procedure, search and seizure, court structures, and federal civil rights.
Prereq.: CRJS 3719 and must be a criminal justice major or have permission of chairperson.

CRJS 5831  Violence in America  3 s.h.
Analysis of violence in America including official and unofficial statistics, types and levels of violence, research findings, and profiles of offenders. Case analysis of domestic violence, juvenile violence, gangs, and other forms of violence.
Prereq.: CRJS 3715.

CRJS 5840  Critical Incidents and Homeland Security  3 s.h.
This course provides an overview of emergency planning at all stages from the initial development of an emergency plan to the management of crisis situations to the evaluation of the response. The course culminates in the creation of an emergency preparedness plan for jurisdiction or agency of the student's choosing, and the student is encouraged to select a situation consistent with present work or long-term career plans.
Prereq.: CRJS 1500, PHLT 1531, OR graduate student status.

CRJS 5841  Terrorism and Countersurveillance  3 s.h.
The course provides an introduction to terrorism and counter-terrorism techniques. Generally, the course material is divided into two parts. First, the course offers a description of terrorist and anti-government groups. Topics covered include the background and history of terrorist and anti-government groups as well as the tactics of these groups. Second, the course takes the perspective of homeland security and law enforcement agencies proactively counteracting the threats to public safety that they groups may pose.
Prereq.: CRJS 1500, PHLT 1531, OR graduate student status.

CRJS 5855  Gathering and Using Information in Criminal Justice  3 s.h.
Specialized communication skills to prepare criminal justice practitioners in information-gathering techniques, written presentation techniques, verbal and nonverbal communication skills within constitutional guidelines.
Prereq.: CRJS 3712 or CRJS 3765.

CRJS 5872  Drugs and Crime  3 s.h.
This course will cover the drug-crime connection. In doing so, a wide variety of topics will be highlighted from a history of criminal justice policies on various drugs to ways to prevent and treat substance abuse. The three learning objectives (LO) that will be pursued in this course are: 1) explain the context of the criminal justice approaches to specific types of drugs; 2) apply criminal justice (CJ) theories on drug use and abuse; and 3) analyze and assess drug-control policies and criminal justice intervention/management strategies. These three course objectives relate to the overall CJ degree learning outcomes in fostering critical thinking relative to CJ policies, literature review development, and the inter-relationships within the CJ system.

CRJS 5875  Juvenile Justice System  3 s.h.
In-depth analysis of the specialized agencies and procedures developed to deal with problems of juveniles from a historical and philosophical perspective. Consideration of the juvenile court, community-based programs, institutionalization.
Prereq.: Senior standing.

CRJS 5892  Comparative and International Criminal Justice Systems  3 s.h.
An examination of how countries' criminal justice systems are shaped and molded by elements of culture, religion, and political ideology of the area. Emphasis will be placed on comparing and contrasting the selected countries' criminal justice systems with those found in the United States of America.
Prereq.: Senior standing or permission of the chair.

CRJS 6910  Law and Criminal Justice  3 s.h.
An historical analysis of criminal law as a social control. An overview of substantive criminal law and criminal procedural law in the United States.
CRJS 6915 Advanced Criminology 3 s.h.
A comprehensive analysis of the causes of crime from an interdisciplinary perspective. Major criminological theories are considered in light of contemporary empirical research.
Prereq.: CRJS 3735 or equivalent or permission of the Graduate Coordinator.

CRJS 6920 Criminal Justice Studies, Practices, and Theories 3 s.h.
A critical analysis of the field of criminal justice studies including crime statistics, crime causation, the criminal justice process, and the agencies involved.
Prereq.: CRJS 1500.

CRJS 6925 Administration and Management Theory 3 s.h.
Administration and management theory as applied to criminal justice agencies. Includes the functions of the executive, the nature of authority and leadership, organizational communication, and theories of employee motivation.

CRJS 6940 Statistical Techniques in Health and Human Services 3 s.h.
A consideration of the courses of statistical information in the health care and behavioral science fields and the limits of such data, with primary emphasis upon multivariate statistics and their application to the field.

CRJS 6942 Research and Statistics in Health and Human Services 3 s.h.
A consolidated statistical and research course in human services to design and use qualitative and quantitative research, use and interpret descriptive and inferential statistics, and evaluate the research of others.

CRJS 6945 Research Methods in Health and Human Services 3 s.h.
An analysis of the design and execution of both quantitative and qualitative research in the human services, and the development of research designs most useful to human services research problems.

CRJS 6950 Selected Topics in Criminal Justice 3 s.h.
Addresses specific topics relating to the crime problem and the criminal justice process. The topics may vary from semester to semester and will be announced prior to enrollment. This course is repeatable provided it is on different topics.

CRJS 6955 Independent Study 3 s.h.
Study under the personal supervision of a faculty member with the approval of the graduate director. May be repeated once.

CRJS 6957 Readings in Criminal Justice 1-4 s.h.
Extensive reading assignments in the student's interest area under the supervision of a graduate faculty member. May be repeated for no more than a total of six semester hours.
Prereq.: Approval of graduate director.

CRJS 6960 Program Planning and Evaluation 3 s.h.
A systematic review and evaluation of human services programs with special attention to the posting of questions in context; questions relating to the selection of design, method, and process of summative evaluation; and assessing the effectiveness of programs.

CRJS 6970 Applied Police Management 3 s.h.
Systematic examination of the principles and practices related to the management of police organizations. Examples will reflect problems of the urban and suburban environments, relationships with political entities, and internal control.

CRJS 6971 Human Resources in Policing 3 s.h.
Evaluation of police personnel systems, employment qualifications, psychiatric screening, polygraph examination, minority recruitment, and police cadet systems, personnel costs, educational requirements, lateral entry, mandated state minimum training standards, and federal involvement in police manpower.

CRJS 6975 Applied Police Correction Management 3 s.h.
Systematic examinations of the principles and practices of criminal justice organizations and the historical contexts of their implementation. Readings emphasize best practices, legal standards, and interdisciplinary cooperation affecting law enforcement and corrections, especially as they affect financial management, human resources, community relations, homeland security, and the treatment of vulnerable populations.

CRJS 6980 Managing Correctional Operations 3 s.h.
Historical review of corrections in the United States. Modern theories of correctional administration and organization in both facilities and community settings. Special focus on financial operations, contagious illnesses, security, staff management, corruption, programming, architecture, hostage situations, and community concerns.

CRJS 6981 Correctional Case Management 3 s.h.
Case management, presentencing investigation, classification, and risk assessment. Analysis of theories of rehabilitation as applied in corrections. Special focus on training, recreation, health care and mental health services, religious programs, and special needs offenders, including sexual and drug offenders.

CRJS 6985 Grant Writing 3 s.h.
Insight into the methods, strategies, and techniques of grant writing, with emphasis on the proposal components and exploration of funding sources. Each student will exhibit competence in planning, developing, and evaluating a proposal as well as creating a draft of a grant proposal based on an actual Request for Proposals.

CRJS 6990 Criminal Justice Public Policy Seminar 3 s.h.
Types of policy and how policies are formulated are covered. The evaluation of policy, with attention to what constitutes good public policy. Special attention is given to the impact of crime control policies, particularly crime legislation and current laws.

CRJS 6995 Criminal Justice Practicum 3-6 s.h.
Supervised experience in an applied criminal justice setting. Permit required.
Prereq.: Majority of core and track courses completed and the recommendation of student's committee and approval by graduate director.

CRJS 6998 Graduate Paper 2 s.h.
Graduate-level research and a comparable paper under the supervision of the student's major professor. 2 s.h.

CRJS 6999 Research and Thesis 1-6 s.h.

Hospitality Management

HMGT 1500 Introduction to Hospitality Industry 3 s.h.
General overview of the hospitality industry with perspectives on the organizational structure, operations, management and various associated issues.

HMGT 2603 Hospitality Managerial Accounting 4 s.h.
Using the "Uniform System of Accounting for Small Hotels, Motels, and Motor Hotels," introduces the unique requirements of hospitality industry record keeping. Focus on using financial data to safeguard assets, control costs, budget and plan, and practice yield management.
Prereq.: MATH 1552 or MATH 2623.

HMGT 2622 Hotel Management 3 s.h.
The role of service departments within a hotel, such as housekeeping, front office, security (or night audits), and concierge. Topics include: fundamental lodging classifications and brands in the lodging industry, recent trends, the relationship between the hotel rooms department and other departments.
Prereq.: HMGT 1500 or HMGT 1501.

HMGT 2634 Hospitality Management Information Systems 3 s.h.
Overview of the management information systems of hotels, restaurants, and other hospitality industries.
Prereq.: CSIS 1514.

HMGT 2691 Hospitality Cooperative Work Experience 3 s.h.
Work experience in which the student assumes supervisory responsibilities within an assigned food-service or lodging facility. One hour seminar and 20 hours work experience per week.
Prereq.: "C" or better in HMGT 1500 and HMGT 1501; 2.0 GPA.
Merchandising: Fashion and Interiors

MRCH 1506 Clothing and Image Development 3 s.h.
Purpose and meaning of dress and adornment as a means of communication and social identity.

MRCH 1508 Apparel Production 3 s.h.
Methods, materials and the fundamental techniques and skills required in the production of apparel. Two hours lecture, three hours lab per week.

MRCH 1510 Apparel Evaluation 3 s.h.
Analysis and evaluation of aspects of garment construction and styling relating to making merchandising decisions.

MRCH 2625 The World of Fashion 3 s.h.
Overview of fashion-influenced industries: Textiles, Apparel, Accessories, and Home Furnishings.

MRCH 2650 Careers in Merchandising Fashion & Interiors 3 s.h.
Exploration of the various career in the Merchandising Fashion and Interiors field. Analyze the fashion and interiors careers that are growing, reasons for this growth in order to accurately define and predict future careers in the profession and provide the pathways in education, skills, and experience necessary to enter and thrive in these careers. Match students' interests and talents with the fashion and interiors professions that best suit their personal fulfilling career path.

MRCH 2661 Fundamentals of Interior Design 3 s.h.
Studio course in theory, elements and principles of interior design. An introduction to planning, materials, furnishings, work methods, and problem solving to meet human needs. Introduces architectural drawing including plans, elevations, details and basic drafting skills within the context of interior design.

MRCH 2662 Computer Applications for Housing and Interiors 3 s.h.
Computer-aided drafting and design using the basic commands of AutoCAD to produce architectural and interior drawings, including dimensional plans, evaluations, and details. Two hours lecture and 3 hours lab per week.

MRCH 2663 Materials and Methods 3 s.h.
Principles and functions of materials and methods used in the construction of furnishings and housing materials. Raw materials, selection, use, care, and selling points of paper, leather, fur, woods, metals, glass, ceramics, and plastics. Examines the furnishings industry with emphasis on forecasting, planning, selecting, negotiating, pricing, and recording merchandise.

Prereq.: MRCH 2662.

MRCH 3705 Fashion Textiles 3 s.h.
Study of textiles, including their characteristics, functions, purposes, and care. Fibers, yarns, construction, finishes, and textile legislation. Two hours lecture, two hours lab.

Prereq.: "C" or better in HMGT 1500 or HMGT 1501.

MRCH 3715 Fashion Promotion and Fashion Show Production 3 s.h.
Exploration of the various fashion career in the Merchandising Fashion and Interiors field. Analyze the fashion and interiors careers that are growing, reasons for this growth in order to accurately define and predict future careers in the profession and provide the pathways in education, skills, and experience necessary to enter and thrive in these careers. Match students' interests and talents with the fashion and interiors professions that best suit their personal fulfilling career path.

MKTG 3703 or MRCH 2625 or MRCH 1506.

MRCH 3710 Special Topics in Merchandising Fashion & Interiors 3 s.h.
Special and progressive topics and themes chosen on the basis of need. Topics must be related to Merchandising: Fashion and Interiors.

Prereq.: Sophomore standing.

MRCH 3713 Merchandise Buying 3 s.h.
Strategies and philosophies of merchandise selection. Topics examined include the organization of the buying function, determining what to buy based on customer needs, visiting the market, vendor analysis and selection, and the buyer's responsibilities in other areas of the firm. The product dimension and global sourcing are explored in depth.

Prereq.: MATH 2623 or MATH 1570; CSIS 1514 and MRCH 2625.

MRCH 3715 Fashion Promotion and Fashion Show Production 3 s.h.
Exploration of the various fashion career in the Merchandising Fashion and Interiors field. Analyze the fashion and interiors careers that are growing, reasons for this growth in order to accurately define and predict future careers in the profession and provide the pathways in education, skills, and experience necessary to enter and thrive in these careers. Match students' interests and talents with the fashion and interiors professions that best suit their personal fulfilling career path.

Prereq.: "C" or better in HMGT 2691 and CHFM 371.

MRCH 3720 Fashion and Wearable Technology 3 s.h.
Introduction to fashion, textile computing, smart textiles, 3-D printing. Exploration of the various fashion career in the Merchandising Fashion and Interiors field. Analyze the fashion and interiors careers that are growing, reasons for this growth in order to accurately define and predict future careers in the profession and provide the pathways in education, skills, and experience necessary to enter and thrive in these careers. Match students' interests and talents with the fashion and interiors professions that best suit their personal fulfilling career path.

FNUT 2612.

MRCH 3725 Food and Beverage Management 3 s.h.
Managerial authority and responsibilities in setting goals, forecasting, controlling quality and costs, establishing policy in the successful operation of a food and beverage department. Two hours lecture, two hours lab.

Prereq.: FJWT 2612.

MRCH 3730 Social Psychology of Clothing and Appearance 3 s.h.
Interdisciplinary study of clothing and appearance within contexts of cultural, social-psychological, physical, and aesthetic relationships. Emphasize origins and motives of dress and adornment, relationship of clothing and appearance to self, and appearance as a factor in interpersonal and collective behavior. Explicitly connects the fields of fashion and social psychology.

Prereq.: ENGL 1551, PSYC 1560 and SOC 1500.

MRCH 3740L Computer Applications for Textiles & Apparel Lab 3 s.h.
Exploration of computer and software applications used in the fashion industry. The use of computer-aided design (CAD) to produce technical drawings, sketches, color stories and textile prints for design and merchandising presentations. Two hours lecture, three hours lab.

Prereq.: MRCH 1506 or MRCH 2661.

MRCH 4804 Hospitality Industry Law and Ethics 3 s.h.
Principles and functions of materials and methods used in the construction of furnishings and housing materials. Raw materials, selection, use, care, and selling points of paper, leather, fur, woods, metals, glass, ceramics, and plastics. Examines the furnishings industry with emphasis on forecasting, planning, selecting, negotiating, pricing, and recording merchandise.

Prereq.: "C" or better in HMGT 1500 or HMGT 1501.

HMGT 3719 Hospitality Operations Management 3 s.h.
Capstone course requiring a broad application of knowledge and skills. Students solve operational dilemmas and make decisions reflecting the diverse nature of managing a hotel, resort, and food-service property.

Prereq.: "C" or better in HMGT 2691 and CHFM 371.

HMGT 3734 Front Office Operation 3 s.h.
Advanced study of the front-office management from reservations through checkout including the property management systems, central reservation system, and their impacts on other lodging operations.

Prereq.: "C" or better in HMGT 2622.

HMGT 3745 Hospitality Marketing and Sales 4 s.h.
Basic concepts and practices of modern hospitality marketing, which enable students to develop strategic and operating marketing plans for hospitality industries.

Prereq.: "C" or better in HMGT 1500 or HMGT 1501.

HMGT 4846 Event Management 3 s.h.
Focus on the career of meeting and convention management, includes adult learning theory, finance, promotion, post-meeting evaluation, facility selection, budgeting, exhibit management, physical facilities, pre-event planning.

Prereq.: MGT 2604; "C" or better in HMEC 1550 and HMGT 3719.

HMGT 4846 Hospitality Industry Law and Ethics 3 s.h.
Legal aspects of managing a hotel, resort, or restaurant. Provides an understanding of preventive measures to avoid or successfully deal with litigation. Includes legal research, licensing, innkeepers' obligations.

Prereq.: "C" or better in HMGT 1500 or HMGT 1501.

HMGT 4861 Fundamentals of Interior Design 3 s.h.
Introduces architectural drawing including plans, elevations, details and basic drafting skills within the context of interior design.

Prereq.: "C" or better in HMGT 1500.

HMGT 4862 Computer Applications for Housing and Interiors 3 s.h.
Computer-aided drafting and design using the basic commands of AutoCAD to produce architectural and interior drawings, including dimensional plans, evaluations, and details. Two hours lecture and 3 hours lab per week.

HMGT 4863 Materials and Methods 3 s.h.
Principles and functions of materials and methods used in the construction of furnishings and housing materials. Raw materials, selection, use, care, and selling points of paper, leather, fur, woods, metals, glass, ceramics, and plastics. Examines the furnishings industry with emphasis on forecasting, planning, selecting, negotiating, pricing, and recording merchandise.

Prereq.: "C" or better in HMGT 1500 or HMGT 1501.

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MRCH 3742  Applied Textile Design  3 s.h.
Use of color application and needlwork processes in production of clothing
and home furnishings. Exploration into the process of fabric design as a part
of textile end product development. Students will design their own fabrics and
textile products using dyeing, printing and needlework methods. Two hours
lecture, three hours lab.
Prereq.: MRCH 1506.

MRCH 3745  Product Line Development  3 s.h.
The theory and practice of sewn products development. Includes technology
applications and practical experience in product development for fashion
influenced textile goods. 2 hours lecture & 3 hours lab.
Prereq.: MRCH 1508 or MRCH 1506 or MRCH 2661.

MRCH 3760  Visual Merchandising  3 s.h.
Evaluation and creation of visual displays for the purpose of selling fashion,
home furnishings, and other merchandise. Independent and cooperative work
in analyzing store displays in the field, making recommendations for fixtures
and displays, creating class projects, and working on visual displays and plans.
Two hours lecture, two hours lab.
Prereq.: MRCH 1506 or MRCH 2661.

MRCH 3764  Family Housing and Technology  3 s.h.
Planning the home environment to meet family needs and resources;
consumer decisions in selection of residences, floor plans, and household
technology.
Prereq.: SOC 1500.

MRCH 3795  Fashion Industry Tour  1 s.h.
Concentrated on-site study of the fashion industry including tours of
laboratories, designer workrooms, showrooms, buying offices and related
organizations. Pre-tour orientiations and written report of experiences required.
Prereq.: MRCH 1506 or MRCH 1510 or MRCH 2625.

MRCH 4870  Global Fashion Economy  3 s.h.
Exploration of the nature of the global textile and apparel economy. Identifying
the challenges of sourcing textiles and apparel products internationally.
Discussion of the various countries and regions that buy and manufacture
fashion goods. Junior standing.
Prereq.: MRCH 2625.

MRCH 4877  History of Fashion  3 s.h.
Chronological study of fashion from antiquity through the twentieth century.
The focus will be on style identification as well as the influence of social,
political, and economic conditions as well as cultural and technological
changes upon fashion and appearance.
Prereq.: Junior standing and any one of the following: MRCH 2625, junior
standing.

MRCH 4879  History of Furnishings and Interiors  3 s.h.
A chronological study of interiors and furnishings from antiquity to the
twenty-first century will be explored. The focus will be on style identification
as well as the influence of social, political, and economic conditions upon
furnishings and development.
Prereq.: MRCH 2663 or MRCH 2625.

MRCH 4880  Merchandising Management  3 s.h.
Principles of merchandising applied to planning, development, and
presentation of product lines in both the production and marketing of apparel,
soft line, and other consumer goods. Relates the role of merchandising to
other business fundamentals.
Prereq.: MRCH 3713, MGT 3725.
Gen Ed: Capstone.

MRCH 5875  Directed Individual Study in Merchandising Fashion &
Interiors  1-6 s.h.
Individual study or research of a unique problem or issue related to
Merchandising: Fashion and Interiors. Application must be made with the
department prior to registration.
Prereq.: Junior standing.

MRCH 5895  International Studies in Merchandising Fashion & Interiors  3
s.h.
The focus is to travel to designated countries while focusing on the
professional areas of Merchandising: Fashion and Interiors and their
relationship to fashion, textiles, and home fashions of the country of visit.
Recognizing the economic, political, and social perspectives related to the
textiles and apparel global economy. Class sessions and travel as well as pre-
tour and post-tour assignments and evaluation based on course objectives
supervised by the Merchandising faculty.
Prereq.: Junior, permission of instructor and department chairperson.

Student Learning Outcomes (SLO)
The SLOs for majors within the Criminal Justice and Consumer Sciences
Department are as follows:

Criminal Justice
Basic Police Training Certificate:
SLO 1 Cadets will demonstrate their ability to interpret key elements of the
law as well as demonstrate the adequate physical fitness to enforce these
elements.

Associates of Science in Applied Science:
SLO 1 Basic Knowledge: Students will demonstrate knowledge of the operation
and influence of the CJ system at the subsystem levels (e.g., policing, courts,
corrections).
SLO 2 Legal Processes: Students will analyze legal situations that relate to the
CJ system.

Bachelor of Science in Applied Science:
SLO 1 Basic Knowledge: Students will demonstrate knowledge of the operation
and influence of the CJ system at the subsystem levels (e.g., policing, courts,
corrections).
SLO 2 Legal Processes: Students will analyze legal situations that relate to the
CJ system.
SLO 3 Best Practices: Students will apply principles and strategies identified
as best practices in the management and operation of criminal justice
agencies.
SLO 4 Analysis: Students will analyze and interpret patterns and trends
affecting criminal-justice-related agencies through the application of theory
and the use of data analysis and research methods.
SLO 5 Professionalism: Students will engage in activities in preparation for
employment for further study in criminal-justice-related areas.

Master of Science in Criminal Justice:
SLO 1 Evaluation: Students will demonstrate knowledge on how to evaluate
programs, policies, theories, and research related to the criminal justice
system.
SLO 2 Administration: Students will demonstrate knowledge on how to use key
CJ concepts to administrate programs and lead others.
SLO 3 Research: Students will demonstrate knowledge on how to perform their
own research related to the criminal justice system.

Hospitality Management
- Demonstrate appropriate customer and guest service practices, skills
  and behaviors required during customer involvement that contribute to
customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and
  the ability to work with a group of people to formulate rational solutions to
hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using
  appropriate health, safety, sanitation, and environmental protection
  procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the
  hospitality industry.
Core courses for an associate degree are:

- Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.
- Analyze legal, ethical, and socio-political considerations affecting organizations to make management decisions.
- Demonstrate use of accepted accounting practice and sound financial management.

**Merchandising**

SLO1 Basic: Knowledge: Students will demonstrate knowledge and skills needed to succeed in the field of merchandising fashion and interiors.

SLO2 Progressive: Students will be prepared for the changing dynamics in the field of merchandising fashion and interiors and apply the same processes in their learning - e.g. E-commerce, social media marketing, fashion and technology.

SLO3 Best Practices: Students will apply principles and strategies identified as best in the field of merchandising fashion and interiors.

SLO4 Analysis: Students will analyze, interpret, integrate and apply merchandising fashion and interiors principles in workplace settings.

SLO5 Professionalism: Students will engage in professional activities and conduct in preparation for internship, employment and for further study in the field of merchandising fashion and interiors.

**Associate of Applied Science in Criminal Justice, Corrections Track**

The Associate of Applied Science (AAS) degree in Criminal Justice is considered appropriate for persons preparing for employment in many municipal, state, and private police agencies as well as persons considering employment in local, state, federal, and private correctional facilities. The associate degree also is a stepping stone for those students who plan to go on for a bachelor’s degree. The associate degree in Criminal Justice has three tracks:

- law enforcement track
- corrections track
- loss prevention/assets protection track

The program requires 60 semester hours:

- 34 hours in general degree requirements
- 18 hours in Criminal Justice and Forensic Sciences core courses
- 8 hours in the selected track

The Associate of Applied Science degree can be completed in four semesters if students average 15 hours per semester.

Transfer students must take at least 20 hours of YSU courses. Sixteen (16) semester hours of Criminal Justice and Forensic Sciences course work must be taken at Youngstown State University.

The associate degree is built upon core/track concept with emphasis (track) areas in:

- law enforcement
- corrections
- loss prevention/assets protection

Core courses for an associate degree are:

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CRJS 2601</td>
<td>Policing</td>
<td>3</td>
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<td>CRJS 2602</td>
<td>Criminal Courts</td>
<td>3</td>
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<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
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</tbody>
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Students choose an additional 12 credit hours from one of the emphasis areas. See department for course options.

**COURSE** | **TITLE** | **S.H.**
---|---|---
CRJS 3735 | Crime and Delinquency | 3
CRJS 3719 | Criminal Law | 3

**Learning Outcomes**

1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections).
2. Students can apply CJ theories.
3. Students can analyze legal situations.

**Associate of Applied Science in Criminal Justice, Loss Prevention/Assets Protection Track**

The Associate of Applied Science (AAS) degree in Criminal Justice is considered appropriate for persons preparing for employment in many municipal, state, and private police agencies as well as persons considering employment in local, state, federal, and private correctional facilities. The associate degree also is a stepping stone for those students who plan to go...
on for a bachelor's degree. The associate degree in Criminal Justice has three tracks:

- law enforcement track
- corrections track
- loss prevention/assets protection track

The program requires 60 semester hours:

- 34 hours in general degree requirements
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The Associate of Applied Science degree can be completed in four semesters if students average 15 hours per semester.

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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Humanities</td>
<td>6</td>
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<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
<td>3</td>
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<tr>
<td>One additional Arts and Humanities course</td>
<td>3</td>
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<tr>
<td>Social Science</td>
<td>6</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology (required for major)</td>
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<td>PSYC 1560</td>
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<td>Natural Sciences (with lab)</td>
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<td>Social and Personal Awareness</td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
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<tr>
<td>CRJS 2601</td>
<td>Policing</td>
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<td>CRJS 2602</td>
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</tr>
<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
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</tbody>
</table>

Learning Outcomes

1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections).
2. Students can apply CJ theories.
3. Students can analyze legal situations.

Associate of Applied Science in Criminal Justice, Law Enforcement Track

The Associate of Applied Science (AAS) degree in Criminal Justice is considered appropriate for persons preparing for employment in many municipal, state, and private police agencies as well as persons considering employment in local, state, federal, and private correctional facilities. The associate degree also is a stepping stone for those students who plan to go on for a bachelor’s degree. The associate degree in Criminal Justice has three tracks:

- law enforcement track
- corrections track
- loss prevention/assets protection track

The program requires 60 semester hours:

- 34 hours in general degree requirements
- 18 hours in Criminal Justice and Forensic Sciences core courses
- 8 hours in the selected track

The Associate of Applied Science degree can be completed in four semesters if students average 15 hours per semester.

Transfer students must take at least 20 hours of YSU courses. Sixteen (16) semester hours of Criminal Justice and Forensic Sciences course work must be taken at Youngstown State University.

The associate degree is built upon core/track concept with emphasis (track) areas in:

- law enforcement
- corrections
- loss prevention/assets protection

Core courses for an associate degree are:
Bachelor of Science in Applied Science in Criminal Justice, Generalist Track

A Bachelor of Science in Applied Science (BSAS) degree in Criminal Justice requires a minimum of 120 semester hours. All Bachelor of Science in Applied Science students must complete a minimum of 57 semester hours of Criminal Justice courses of which 36 semester hours or more must be taken from upper-division courses. The courses are listed as CRJS courses. This degree can be earned in eight semesters if students average 15 hours per semester.

Transfer students must complete a minimum of 18 hours in Criminal Justice and Forensic Sciences courses at YSU.

Generalist Track

A generalist track is available for transfer students and students seeking a nontraditional area of study such as victim's rights and juvenile justice. This track is available to students at institutions participating in the interactive distance learning (IDL) agreements with the University. Department approval 15 hours of course work are required.

A grade of C or better must be received in each required Criminal Justice and Forensic Sciences course in order to satisfy the departmental requirements for the degree.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tr>
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<td>CRJS 2601</td>
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| Elective | 12 |

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<td>CRJS 3777</td>
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Total Semester Hours 60-62

Learning Outcomes

1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections)
2. Students can apply CJ theories.
3. Students can analyze legal situations.
4. Students can assess public policy as it relates to the CJ system.
Bachelor of Science in Applied Science in Criminal Justice, Corrections Track

CRJS 37XX
CRJS 48XX/58XX
CRJS 48XX/58XX

**Total Semester Hours** 108-112

1. Capstone course.
2. Must have approval from CJFS Chair. Generalist emphasis is not eligible for CRJS 3777.
3. Alternate option is to complete OPPTA.

**Year 1**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
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<td>ENGL 1550</td>
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**Year 2**

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<td>Communication Foundations</td>
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<td>CRJS 2603</td>
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<td>Arts and Humanities Elective 15XX</td>
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<td>CRJS 3715</td>
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**Year 3**

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<td>CRJS 3710</td>
<td>Social Statistics</td>
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<td>CRJS 3700 or higher-Level Elective</td>
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<td>Natural Science</td>
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<td>Social and Personal Awareness</td>
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<td><strong>Semester Hours</strong></td>
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<tr>
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<td>CRJS 3712</td>
<td>Criminal Justice Research</td>
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<td>Social and Personal Awareness</td>
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**Year 4**

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<td><strong>Fall</strong></td>
<td>CRJS 4800</td>
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<td>CRJS 4800 or higher-Level Elective</td>
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<td>Elective</td>
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<td>Elective</td>
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<td>CRJS 4800 or higher-Level Elective</td>
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<td><strong>Semester Hours</strong></td>
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<tr>
<td><strong>Spring</strong></td>
<td>Elective</td>
<td>3</td>
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<td></td>
<td>CRJS 4800</td>
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<td>CRJS 3700 or higher-Level Elective</td>
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<td>Elective</td>
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**Total Semester Hours** 119-121

**Learning Outcomes**

1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections)
2. Students can apply CJ theories.
3. Students can analyze legal situations.
4. Students can assess public policy as it relates to the CJ system.

**Bachelor of Science in Applied Science in Criminal Justice, Corrections Track**

A Bachelor of Science in Applied Science (BSAS) degree in Criminal Justice requires a minimum of 120 semester hours. All Bachelor of Science in Applied Science students must complete a minimum of 120 semester hours of Criminal Justice courses of which 36 semester hours or more must be taken from upper-division courses. The courses are listed as CRJS courses. This degree can be earned in eight semesters if students average 15 hours per semester. Transfer students must complete a minimum of 18 hours in Criminal Justice courses at YSU.

**Corrections Track**

The corrections track is offered for students preparing for a career in probation, parole, or institutional services with either adults or juveniles.

A grade of C or better must be received in each required Criminal Justice and Forensic Sciences course in order to satisfy the departmental requirements for the degree.

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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**General Education Requirements**

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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Any GER MATH course</td>
<td>3-4</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology (required for major)</td>
</tr>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>-------------</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology (required for major)</td>
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<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
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<td>Law and Criminal Justice Ethics</td>
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<td>Arts and Humanities (1 course)</td>
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<td>Social and Personal Awareness (2 courses)</td>
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**Major Requirements**

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<td>CRJS 1500</td>
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<td>CRJS 2602</td>
<td>Criminal Courts</td>
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<td>CRJS 2603</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3710</td>
<td>Social Statistics</td>
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<td>CRJS 3712</td>
<td>Criminal Justice Research</td>
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<td>Criminal Justice Management Concepts</td>
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<td>Criminal Law</td>
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<td>CRJS 3735</td>
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<td>CRJS 4800</td>
<td>Senior Seminar</td>
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**Corrections Track**

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<tbody>
<tr>
<td>CRJS 3702</td>
<td>Correctional Strategies</td>
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<td>CRJS 3702L</td>
<td>Correctional Strategies Practicum</td>
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<td>CRJS 5802</td>
<td>Corrections Law and Liability</td>
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<tr>
<td>CRJS 4803</td>
<td>Correctional Case Management and Treatment</td>
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**Criminal Justice Upper Division Electives, 37XX or higher- 12 s.h.**

Select 12 s.h. of upper-division 37XX or higher CRJS electives.

**Elective or (Optional) Minor-must have 26 s.h. total**

Select 26 s.h. of Minor or additional electives.

**Total Semester Hours** 120-124

1. Capstone course.
2. Alternate option is to complete OPOTA.

**Year 1**

**Fall**

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Writing 1</td>
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<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
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<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
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<td>SOC 1500</td>
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**Semester Hours** 13-15

**Spring**

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<td>Criminal Courts</td>
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Natural Science Elective with Lab

**Semester Hours** 16

**Year 2**

**Fall**

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<td>Communication Foundations</td>
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<td>CRJS 3719</td>
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CRJS 3700 or higher-Level Elective

**Semester Hours** 15

**Spring**

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PHIL 2625 Introduction to Professional Ethics 3

**Year 3**

**Semester Hours** 15

**Fall**

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**Semester Hours** 15

**Spring**

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**Semester Hours** 15

**Year 4**

**Fall**

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<td>Elective</td>
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<td>3</td>
</tr>
</tbody>
</table>

**Semester Hours** 15

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 4803</td>
<td>Correctional Case Management and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 4800</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3700 or higher-Level Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Personal Awareness</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Hours** 15

**Total Semester Hours** 119-121

**Learning Outcomes**

1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections).
2. Students can apply CJ theories.
3. Students can analyze legal situations.
4. Students can assess public policy as it relates to the CJ system.

**Bachelor of Science in Applied Science in Criminal Justice, Law Enforcement Track**

A Bachelor of Science in Applied Science (BSAS) degree in Criminal Justice requires a minimum of 120 semester hours. All Bachelor of Science in Applied Science students must complete a minimum of 57 semester hours of Criminal Justice courses of which 36 semester hours or more must be taken from upper-division courses. The courses are listed as CRJS courses. This degree can be earned in eight semesters if students average 15 hours per semester.
Transfer students must complete a minimum of 18 hours in Criminal Justice and Forensic Sciences courses at YSU.

**Law Enforcement Track**

The law enforcement track is designed for persons preparing for employment in municipal, state, and private agencies; federal law enforcement agencies; homeland security; administrative positions in municipal or state agencies; or as instructors in police education programs.

A grade of C or better must be received in each required Criminal Justice and Forensic Sciences course in order to satisfy the departmental requirements for the degree.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Any GER MATH course</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 2627</td>
<td>Law and Criminal Justice Ethics</td>
<td></td>
</tr>
</tbody>
</table>

One additional Arts and Humanities course 3

Natural Science (2 courses, 1 with lab) (6-7 s.h) 7

Social Science (2 courses) 3

SOC 1500 Introduction to Sociology (required for major) 3

CRJS 1500 Introduction to Criminal Justice 3

Social and Personal Awareness (2 courses) 3

PSYC 1560 General Psychology (required for major) 3

Social and Personal Awareness elective 3

**Major Requirements**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 2601</td>
<td>Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2602</td>
<td>Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3710</td>
<td>Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3712</td>
<td>Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3715</td>
<td>Criminal Justice Management Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3719</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3735</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 4800</td>
<td>Senior Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Criminal Justice Upper Division Electives, 37XX or higher-12 s.h.**

Select 12 s.h. of upper-division 37XX or higher CRJS electives. 12

**Electives or (Optional) Minor-must have 28 s.h. total**

Select 28 s.h. of Minor or additional electives. 28

**Law Enforcement**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 1510</td>
<td>Survey of Forensic Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3714</td>
<td>Forensic Science: Crime Scene Investigation</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 3714L</td>
<td>Forensic Science CSI Lab</td>
<td></td>
</tr>
<tr>
<td>CRJS 3740</td>
<td>Criminal Justice Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5825</td>
<td>Criminal Procedures and Constitutional Issues</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 4870</td>
<td>Law Enforcement Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 120-123

1. Capstone course.
2. Alternate option is to complete OPOTA.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
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</tr>
<tr>
<td>YSU 1500 Success Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1550 Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549 Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>CRJS 1500 Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Any GER MATH course (3-4 S.H)</td>
<td>3-4</td>
</tr>
<tr>
<td>PSYC 1560 General Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Hours 13-15

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester Hours 16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551 Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2602 Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2601 Policing</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science with Lab</td>
<td>4</td>
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</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Semester Hours 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>CRJS 3715 Criminal Justice Management Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3735 Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3700 or higher-Level Elective</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3700 or higher-Level Elective</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625 Introduction to Professional Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Semester Hours 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
</tr>
<tr>
<td>CRJS 3700 or higher-Level Elective</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3700 or higher-Level Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
OR
CRJS 3777 (16 s.h.)
OR
CRJS 4807 (3-12 s.h.)

Semester Hours 15

Spring
CRJS 4870 Law Enforcement Administration 3
3700 or higher-Level Elective 3
CRJS 4800 3
Elective 3
CRJS 5825 Criminal Procedures and Constitutional Issues 3

Semester Hours 15

Total Semester Hours 119-121

Learning Outcomes
1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections)
2. Students can apply CJ theories.
3. Students can analyze legal situations.
4. Students can assess public policy as it relates to the CJ system.

Bachelor of Science in Applied Science in Criminal Justice, Legal Process Track

A Bachelor of Science in Applied Science (BSAS) degree in Criminal Justice requires a minimum of 120 semester hours. All Bachelor of Science in Applied Science students must complete a minimum of 57 semester hours of Criminal Justice courses of which 36 semester hours or more must be taken from upper-division courses. The courses are listed as CJFS courses. This degree can be earned in eight semesters if students average 15 hours per semester.

Transfer students must complete a minimum of 18 hours in Criminal Justice and Forensic Sciences courses at YSU (see University-wide residency requirement).

Legal Processes Track

The legal processes track is designed for students preparing for law school, court administration, paralegal work or legal research positions.

A grade of C or better must be received in each required Criminal Justice and Forensic Sciences course at YSU (see University-wide residency requirement).

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>CRJS 3720</td>
<td>Legal Research</td>
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</tr>
<tr>
<td>CRJS 3721</td>
<td>Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 37XX or higher</td>
<td>3</td>
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</tr>
<tr>
<td>CRJS 5825</td>
<td>Criminal Procedures and Constitutional Issues</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 4890</td>
<td>Judicial Administration</td>
<td>3</td>
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</tbody>
</table>

Total Semester Hours 120-124

1 Capstone course.
2 Alternate option is to complete OPOTA.

Year 1

Fall
YSU 1500 Success Seminar 1
ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
CRJS 1500 Introduction to Criminal Justice 3
Any GER MATH course (3-4 S.H) 3-4
SOC 1500 Introduction to Sociology 3

Semester Hours 13-15

Spring
ENGL 1551 Writing 2 3
CRJS 2602 Criminal Courts 3
CRJS 2601 Policing 3
PSYC 1560 General Psychology 3
Natural Science Elective with Lab 4

Semester Hours 16

Year 2

Fall
CMST 1545 Communication Foundations 3
CRJS 2603 Corrections 3
CRJS 3719 Criminal Law 3
CRJS 3700 or higher-Level Elective 3
Arts and Humanities 3

Semester Hours 15
Learning Outcomes
1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections)
2. Students can apply CJ theories.
3. Students can analyze legal situations.
4. Students can assess public policy as it relates to the CJ system.

Bachelor of Science in Applied Science in Criminal Justice, Loss Prevention/Assets Protection Track

A Bachelor of Science in Applied Science (BSAS) degree in Criminal Justice requires a minimum of 120 semester hours. All Bachelor of Science in Applied Science students must complete a minimum of 57 semester hours of Criminal Justice courses of which 36 semester hours or more must be taken from upper-division courses. The courses are listed as CJFS courses. This degree can be earned in eight semesters if students average 15 hours per semester.

Transfer students must complete a minimum of 18 hours (see University-wide residency requirement) in Criminal Justice and Forensic Sciences courses at YSU.

Securities Studies Track

The securities studies track is offered to students preparing for a career in private or homeland security or the protection of assets in corporate, retail, or industrial settings. Choose 15 hours from the courses below:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSCI 1510</td>
<td>Survey of Forensic Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3700</td>
<td>Forensic Fire and Explosive Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3740</td>
<td>Criminal Justice Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3751</td>
<td>Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 4848</td>
<td>Loss Prevention and Assets Protection Administration</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5840</td>
<td>Critical Incidents and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5841</td>
<td>Terrorism and Countersurveillance</td>
<td>3</td>
</tr>
</tbody>
</table>

A grade of C or better must be received in each required Criminal Justice and Forensic Sciences course in order to satisfy the departmental requirements for the degree.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Any GER MATH course</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 2627</td>
<td>Law and Criminal Justice Ethics</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities (1 course)</td>
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<td>3</td>
</tr>
<tr>
<td>Social and Personal Awareness (2 courses)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Natural Science (2 course; 1 with lab)</td>
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<td>6-7</td>
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Major Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2601</td>
<td>Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2602</td>
<td>Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3710</td>
<td>Social Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3712</td>
<td>Criminal Justice Research</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3715</td>
<td>Criminal Justice Management Concepts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3719</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3735</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 4800</td>
<td>Senior Seminar</td>
<td>3</td>
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</table>

Securities Studies (Select 15 hours from courses below) 15

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>FSCI 1510</td>
<td>Survey of Forensic Sciences</td>
<td></td>
</tr>
<tr>
<td>FSCI 3700</td>
<td>Forensic Fire and Explosive Investigation</td>
<td></td>
</tr>
<tr>
<td>CRJS 3740</td>
<td>Criminal Justice Information Systems</td>
<td></td>
</tr>
<tr>
<td>CRJS 3751</td>
<td>Prevention Strategies</td>
<td></td>
</tr>
<tr>
<td>CRJS 4848</td>
<td>Loss Prevention and Assets Protection Administration</td>
<td></td>
</tr>
<tr>
<td>CRJS 5840</td>
<td>Critical Incidents and Homeland Security</td>
<td></td>
</tr>
</tbody>
</table>
CRJS 5841  Terrorism and Countersurveillance

Criminal Justice Upper Division Electives ²
Select 12 s.h. of upper-division 37XX or higher CRJS electives. 12

Electives needed to meet 120 s.h. Students may choose a minor.
Select 12 s.h. of Minor and/or additional electives. 26

Total Semester Hours 120-124

¹ Capstone course.
² Alternate option is to complete OPOTA.

Year 1

Fall  S.H.
ENGL 1550  Writing 1 3-4
or ENGL 1549  or Writing 1 with Support
CRJS 1500  Introduction to Criminal Justice 3
Any GER MATH course (3-4 S.H) 3-4
SOC 1500  Introduction to Sociology 3
HAHS 1500  Strong Start FYE 2

Semester Hours 14-16

Spring
ENGL 1551  Writing 2 3
CRJS 2602  Criminal Courts 3
CRJS 2601  Policing 3
Natural Science Elective with Lab 4
PSYC 1560  General Psychology 3

Semester Hours 16

Year 2

Fall
CMST 1545  Communication Foundations 3
CRJS 2603  Corrections 3
CRJS 3719  Criminal Law 3
CJFS 3700 or higher-Level Elective 3
Arts and Humanities 3

Semester Hours 15

Spring
CRJS 3715  Criminal Justice Management Concepts 3
CRJS 3735  Crime and Delinquency 3
CRJS 3700 or higher-Level Elective 3
CRJS 3700 or higher-Level Elective 3
PHIL 2625  Introduction to Professional Ethics 3

Semester Hours 15

Year 3

Fall
CRJS 3710  Social Statistics 3
FSCI 1510  Survey of Forensic Sciences 3
Natural Science 3
Social and Personal Awareness 3
FSCI 3700  Forensic Fire and Explosive Investigation 3

Semester Hours 15

Spring
CRJS 3712  Criminal Justice Research 3
CRJS 3740  Criminal Justice Information Systems 3
Social and Personal Awareness 3
CRJS 3700 or higher-Level Elective 3
Elective 3

Semester Hours 15

Year 4

Fall
CRJS 3751  Prevention Strategies 3
CRJS 4800  3
3700 or higher-Level Elective 3
Elective 3
Elective 3

Semester Hours 15

Spring
CRJS 4848  Loss Prevention and Assets Protection Administration 3
CRJS 4800  3
Elective 3
Elective 3
Elective 3

Semester Hours 15

Total Semester Hours 120-122

Learning Outcomes
1. Students can discriminate the influence of the CJ system at the subsystem levels (policing, courts, and corrections)
2. Students can apply CJ theories.
3. Students can analyze legal situations.
4. Students can assess public policy as it relates to the CJ system.

Certificate in Basic Peace Officer Training

The certificate program in basic police officer training is considered appropriate for persons who are beginning a career in law enforcement. This certificate is considered a starting point in the new officer’s education. The certificate serves as an incentive to continue toward an associate or baccalaureate degree. All of the courses needed for the certificate are applicable for advanced degrees. A placement test is required for all English courses.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2601</td>
<td>Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3777</td>
<td>Ohio Police Officer Basic Training</td>
<td>16</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
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</table>

Select one of the following: 3-4

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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</tr>
<tr>
<td>PHIL 1560</td>
<td>Introduction to Philosophy</td>
<td></td>
</tr>
<tr>
<td>AHLT 1502</td>
<td>Applied Pathophysiology</td>
<td></td>
</tr>
<tr>
<td>CRJS 2602</td>
<td>Criminal Courts</td>
<td></td>
</tr>
</tbody>
</table>

Learning Outcomes
1. Students will identify the key aspects to the elements of law.

Certificate in Homeland Security

The Certificate in Homeland Security requires a minimum of 12 semester hours. The courses are listed as AHLT, CJFS, PHLT, and PLA. Courses are open to any undergraduate student or graduate student meeting program and course prerequisites. Whether a course can be used to fulfill major requirements will be determined by department in which the student is a major, and students may be required to take courses outside the student’s major program of study as university electives to complete the certificate. This
A certificate can be earned in one or two semesters based on the availability of courses assuming the student is taking at least 12 credits per semester.

Transfer students must complete a minimum of 6 hours in residence.

Undergraduate students must earn 12 credits as from the list below. Graduate students are limited to courses at the 5800-level or above and are not eligible for PLA.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHLT 5807</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3700</td>
<td>Forensic Fire and Explosive Investigation</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5840</td>
<td>Critical Incidents and Homeland Security</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5841</td>
<td>Terrorism and Countersurveillance</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 5810</td>
<td>Agents of Mass Casualty</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 5812</td>
<td>Crisis Management in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PLA 3700</td>
<td>Prior Learning Assessment Upper Division Credit</td>
<td>3</td>
</tr>
</tbody>
</table>

PLA 3700 (or another number, if the PLA director so chooses) allows up to 3 credits from FEMA independent study courses and amateur (ham) radio operation. Because of variations of certification content, determination of academic credit for any individual certificate will be determined by the PLA director.

- Identify principal hazards affecting public safety, including but not limited to natural disasters, environmental crises, epidemics, and terrorism.
- Summarize principles and processes of emergency preparedness and prevention, including the use of countersurveillance and emergency preparedness and mitigation plans.
- Describe key activities used in response to critical incidences.
- Discuss ethical considerations related to countersurveillance and emergency response.
- Participate in training activities related to emergency response, homeland security, and emergency communications, including access to appropriate certificates, when available.

### Minor in Criminal Behavior

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3735</td>
<td>Crime and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5831</td>
<td>Violence in America</td>
<td>3</td>
</tr>
</tbody>
</table>

Select THREE of the following:

- CRJS 4850D Special Topics in Criminal Justice Drugs and Crime
- CRJS 5841 Terrorism and Countersurveillance
- CRJS 5875 Juvenile Justice System
- SOC 3744 Social Deviance
- PSYC 3702 Abnormal Psychology
- CRJS 3752 Race, Ethnicity and Crime in America
- SOC 3733 White Collar Crime
- CRJS 3702 Correctional Strategies
- CRJS 3702L Correctional Strategies Practicum
- SOC 3761 Elder Crimes - Elder Justice

Total Semester Hours 18

### Minor in Criminal Justice - Corrections

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3702 &amp; 3702L</td>
<td>Correctional Strategies Practicum</td>
<td>6</td>
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<tr>
<td>CRJS 4803</td>
<td>Correctional Case Management and Treatment</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5802</td>
<td>Corrections Law and Liability</td>
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</table>

Total Semester Hours 18

### Minor in Criminal Justice Ethics

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2627</td>
<td>Law and Criminal Justice Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3708</td>
<td>Social and Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3711</td>
<td>General Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 3723</td>
<td>Philosophy of Law</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- PHIL 1561 Technology and Human Values
- PHIL 1565 Critical Thinking
- PHIL 2635 Ethics of War and Peace
- PHIL 4820 Seminar in Philosophy (relevant topic and instructor consent only)
- PHIL 4870 Internship in Ethical Practice (1 s.h., must repeat 3 times)

Total Semester Hours 18

### Minor in Criminal Justice System

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2601</td>
<td>Policing</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2602</td>
<td>Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 6 s.h. of upper-division Criminal Justice courses.

Total Semester Hours 18

### Minor in Criminal/Legal Processes

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2602</td>
<td>Criminal Courts</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3719</td>
<td>Criminal Law</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3720</td>
<td>Legal Research</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 3721</td>
<td>Evidence</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 5825</td>
<td>Criminal Procedures and Constitutional Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 18

### Minor in Juvenile Justice System

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 2603</td>
<td>Corrections</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 18
Merchandising is a specialized management function within the fashion, textiles and home interiors industries. Merchandisers are responsible for selection of materials, collaborating with the production team and meeting market requirements. The job demands knowledge of fashion trends, textures, materials and colors on one hand and understanding of market demand and the production processes on the other. Individuals who are assertive, flexible, and resourceful, who like to work with people, and who can assume responsibility, make quick decisions, and think clearly have the traits necessary for successful careers in fashion merchandising.

Internship requirements
Merchandising students must complete at least 3 semester hours of Internship credit.

Minor
- Merchandising majors often select minors in Marketing, Management, Journalism, Communications, Art, or Photography. A minor should be selected from an area of personal or career interest.
- There is a minor in fashion for students who have some interest in fashion. A fashion minor is a great complement to numerous career fields because fashion clothing serves a basic human need.

FIT- Fashion Institute of Technology - Visiting Student program
The YSU Merchandising program has an articulation agreement with the Fashion Institute of Technology (FIT) in New York. Interested students can attend FIT for one academic year after completing 30 hours of GER credits at YSU and have 3.00 GPA. Participating students then come back to YSU to complete YSU residency requirement in the MRCH program and will end up with a BSAS MRCH degree from YSU and an Associate from FIT. If you are interested in this program route, please consult very early with Dr. Priscilla Gitimu, the FIT liaison at YSU.

Career Opportunities
Graduates can pursue careers as:
- Buyers
- Department managers
- Merchandise managers
- Store managers
- Store owners
- Sales representatives
- Sales managers
- Merchandisers
- Merchandise allocators
- Merchandise planners
- Merchandise analysts
- Marketing directors
- Fashion directors
- Wardrobe consultants
- Personal Shoppers
Potential Employment Settings related careers.

Check the Dictionary of Occupational Titles under section 141 for additional related careers.

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

| ENGL 1550 | Writing 1                                  | 3-4  |
| or ENGL 1549 | Writing 1 with Support                    |      |
| ENGL 1551  | Writing 2                                  | 3    |
| CMST 1545  | Communication Foundations                  | 3    |
| MATH 2623  | Quantitative Reasoning                     | 3    |
| ART 1540   | Masterpieces of World Art                 | 3    |
| or ART 1541 | Survey of Art History 1                   |      |
| or ART 1542 | Survey of Art History 2                   |      |
| PHIL 2625  | Introduction to Professional Ethics        | 3    |
| or PHIL 2628 | Business Ethics                           |      |
| CHEM 1500  & 1500L | Chemistry in Modern Living and Chemistry in Modern Living Laboratory | 3 |
| or CHEM 1505/1505L | Allied Health Chemistry 1          |      |
| or CHEM 1515/1515L | General Chemistry 1                 |      |
| SOC 1500   | Introduction to Sociology                 | 3    |
| PSYC 1560  | General Psychology                        | 3    |
| ECON 2610  | Principles 1: Microeconomics               | 3    |
| Social and Personal Awareness (2 courses) | 6   |

Major Required Courses (34 s.h.):

| HMEC 1550 | Human Ecology Professions                  | 1    |
| MRCH 1506  | Clothing and Image Development             | 3    |
| MRCH 2625  | The World of Fashion                       | 3    |
| MRCH 3705  | Fashion Textiles                           | 3    |
| MRCH 3713  | Merchandise Buying                         | 3    |
| MRCH 3740L | Computer Applications for Textiles & Apparel Lab | 3 |
| MRCH 3760  | Visual Merchandising                       | 3    |
| MRCH 3745  | Product Line Development                   | 3    |
| MRCH 4870  | Global Fashion Economy                     | 3    |
| MRCH 4877  | History of Fashion                         | 3    |
| MRCH 4880  | Merchandising Management                   | 3    |
| HMEC 4836  | Internship                                 | 3    |

Select one of the two courses (3 s.h.):

| MRCH 3730 | Social Psychology of Clothing and Appearance |     |
| MRCH 3764 | Family Housing and Technology               |     |

Select two of the following lower-division courses (6 s.h.):

| MRCH 1508 | Apparel Production                          |     |
| MRCH 1510 | Apparel Evaluation                          |     |

Select two courses of the following upper-division courses (6 s.h.):

| MRCH 2661 | Fundamentals of Interior Design             |     |
| MRCH 2663 | Materials and Methods                       |     |

Required Additional Courses

| FNUT 1543 | Personal Nutrition                          | 1    |
| CSIS 1514 | Business Computer Systems                   | 3    |
| MGT 2604  | Legal Environment of Business 1             | 3    |
| CHFM 3731 | Individual and Family Development           | 3    |
| MGT 3725  | Fundamentals of Management                  | 3    |
| MKTG 3703 | Marketing Concepts and Practice             | 3    |
| MKTG 3709 | Retail Marketing                            | 3    |
| ACCT 1503 | Elementary Accounting                       | 3    |
| or ACCT 2602 | Financial Accounting                  |      |

Electives to reach 120 hours 10-12

Total Semester Hours 120-129

1 12 s.h. of elective coursework needed to meet the 120 s.h. required for the degree. Selecting a minor will meet this requirement, but a minor is not required.

Year 1

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
</tr>
<tr>
<td>CSIS 1514</td>
<td>Business Computer Systems</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business 1</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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<tr>
<td>ART 1540</td>
<td>Masterpieces of World Art</td>
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<tr>
<td>MRCH 1506</td>
<td>Clothing and Image Development</td>
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</table>

Total Semester Hours 16

Year 2

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRCH 1508</td>
<td>Apparel Production (Social and Personal Awareness)</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (Social and Personal Awareness)</td>
</tr>
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<td>A &amp; H elective</td>
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<tr>
<td>CHEM 1500</td>
<td>Chemistry in Modern Living</td>
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<tr>
<td>CHEM 1500L</td>
<td>Chemistry in Modern Living Laboratory</td>
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Total Semester Hours 16

Year 3

<table>
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<tr>
<th>Spring</th>
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<tbody>
<tr>
<td>MRCH 2625</td>
<td>The World of Fashion</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business 1</td>
</tr>
<tr>
<td>ACCT 1503</td>
<td>Elementary Accounting</td>
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<tr>
<td>or ACCT 2602</td>
<td>Financial Accounting</td>
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</table>
MRCH lower level course 3

<table>
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<tbody>
<tr>
<td><strong>Year 3</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>MRCH 3705</td>
<td>Fashion Textiles 3</td>
</tr>
<tr>
<td>MRCH 3730 or MRCH 3764</td>
<td>Social Psychology of Clothing and Appearance or Family Housing and Technology 3</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice 3</td>
</tr>
<tr>
<td>MRCH 3713</td>
<td>Merchandise Buying 3</td>
</tr>
<tr>
<td>MRCH Upper division elective</td>
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<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td><strong>Spring</strong></td>
<td></td>
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<tr>
<td>MRCH 3740L</td>
<td>Computer Applications for Textiles &amp; Apparel Lab 3</td>
</tr>
<tr>
<td>MKTG 3709</td>
<td>Retail Marketing 3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management 3</td>
</tr>
<tr>
<td>CHFM 3731</td>
<td>Individual and Family Development 3</td>
</tr>
<tr>
<td>MRCH Upper division elective</td>
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</table>

<table>
<thead>
<tr>
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<tbody>
<tr>
<td><strong>Year 4</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fall</strong></td>
<td></td>
</tr>
<tr>
<td>MRCH 4877</td>
<td>History of Fashion 3</td>
</tr>
<tr>
<td>HMEC 4836</td>
<td>Internship 3</td>
</tr>
<tr>
<td>MRCH 1510</td>
<td>Apparel Evaluation 3</td>
</tr>
<tr>
<td>MRCH 3745</td>
<td>Product Line Development 3</td>
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</table>

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Spring</strong></td>
<td></td>
</tr>
<tr>
<td>MRCH 4870</td>
<td>Global Fashion Economy 3</td>
</tr>
<tr>
<td>MRCH 4880</td>
<td>Merchandising Management 3</td>
</tr>
<tr>
<td>MRCH 3715</td>
<td>Fashion Promotion and Fashion Show Production 3</td>
</tr>
<tr>
<td>MRCH 3760 or MRCH 3795</td>
<td>Visual Merchandising or Fashion Industry Tour 3</td>
</tr>
<tr>
<td>MRCH lower division elective</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Semester Hours | 116 |

1 Students who elect FNUT 1551 Normal Nutrition to meet SPA requirement are not required to take FNUT 1543 Personal Nutrition in the major and will need one more elective hour to reach 120 credits.

**Learning Outcomes**

At the completion of the Merchandising: Fashion and Interiors program, graduates will be able to:

- Generate effective solutions to problems in manufacturing and marketing.
- Interpret the needs and wants of target customers.
- Develop a financially sound product line.
- Integrate and apply merchandising principles in workplace settings.
- Evaluate product quality and serviceability.

**Associate of Applied Science in Hospitality Management, Event Management Track**

Mark J. Zetts, MBA
AAS- Hospitality Management Program Director
(330) 941-1784

mzetts01@ysu.edu

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Event Management track provides coursework to prepare graduates to plan leisure activities, sporting events and other celebrations from arranging food and entertainment to reserving venues and accommodations for guests.

The Restaurant and Foodservice track prepares graduates for managing restaurant or institutional food service operations.

The Hotel and Lodging track prepares graduates for careers in the lodging area of hospitality - cruise ships, resorts and hotels.

For more information, contact Mr. Mark Zetts at mzetts01@ysu.edu or (330) 941-1784

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar |
or HONR 1500 | Intro to Honors |

**General Education Requirements**

| ENGL 1550 | Writing 1 | 3-4
| or ENGL 1549 | Writing 1 with Support |
| ENGL 1551 | Writing 2 | 3
| CMST 1545 | Communication Foundations | 3
| MATH 2623 | Quantitative Reasoning | 3

Select two courses from two domains: Arts and Humanities, Social Science or Natural Science (one must include a lab)

| 6 |

**Other Requirements**

| CSIS 1514 | Business Computer Systems | 3 |
| HMGT 2603 | Hospitality Managerial Accounting 1 | 4 |
| HMGT 2691 | Hospitality Cooperative Work Experience | 3 |
| FNUM 1512 | Food Safety and Sanitation | 1 |
| FNUM 1551 | Normal Nutrition | 3 |
| FNUM 1553 & FNUM 1553L | Food Science and Management Principles and Food Science and Management Principles Laboratory | 4 |
| HMGT 2603 | Hospitality Managerial Accounting 1 | 4 |
| HMGT 2691 | Hospitality Cooperative Work Experience | 3 |
| FNUM 1512 | Food Safety and Sanitation | 1 |
| FNUM 1551 | Normal Nutrition | 3 |
| FNUM 1553 & FNUM 1553L | Food Science and Management Principles and Food Science and Management Principles Laboratory | 4 |
| HMGT 3719 | Facilities Management | 4 |
| HMGT 3745 | Hospitality Marketing and Sales | 4 |
| FNUM 2612 & FNUM 2612L | Food Systems: Operation, Production, and Service and Food Systems: Operations, Production, and Service Laboratory | 5 |
| HMGT 4846 | Event Management | 3 |
At the completion of the hospitality management program, graduates will be

Learning Outcomes

where a minimum GPA of 2.5 is required.

Some courses are offered only once a year; see your advisor for proper prerequisites and sequence of courses. This curriculum articulates perfectly with the Bachelor of Science program in Applied Science in Hospitality Management. Some alternative coursework, including ACCT, MGT, and MKTG courses, may be taken in the Williamson College of Business Administration.

The Associate of Applied Science degree articulates with the bachelor's degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
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The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
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The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

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- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.
• Demonstrate use of accepted accounting practice and sound financial management.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

| ENGL 1550 | Writing 1                                  | 3-4  |
| or ENGL 1549 | Writing 1 with Support                  |      |
| ENGL 1551 | Writing 2                                  | 3    |
| CMST 1545 | Communication Foundations                | 3    |
| MATH 2623 | Quantitative Reasoning                   | 3    |

Select 2 courses from 2 domains: Natural Sciences (one must include a lab), Social Science, A&H

Elective - 1 s.h.

Social Science Elective

Artistic & Literary Perspective Elective

HMGT 3745 Hospitality Marketing and Sales 4

Spring

<table>
<thead>
<tr>
<th>FNUT 2610 or MGT 3725</th>
<th>Organization and Management or Fundamentals of Management</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition (Also counts as SPA elective)</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 2622</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Hours 15

Year 2

Fall

| HMGT 2603 | Hospitality Managerial Accounting 1 | 4 |
| HMGT 3734 | Front Office Operation              | 3 |
| HMGT 3719 | Facilities Management               | 4 |
| HMGT 3745 | Hospitality Marketing and Sales     | 4 |

Semester Hours 15

Spring

| CMST 1545 | Communication Foundations          | 3 |
| HMGT 2691 | Hospitality Cooperative Work Experience | 3 |
| Social Science Elective | 3 |
| Elective - 1 s.h. | | 1 |

Semester Hours 13

Total Semester Hours 59

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

• Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
• Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
• Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
• Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
• Demonstrate the ability to market hospitality goods and services effectively and responsibly.
• Analyze legal, ethical, and socio-political considerations affecting organizations to make management decisions.
• Demonstrate use of accepted accounting practice and sound financial management.

Associate of Applied Science in Hospitality Management, Restaurant and Food Service Management Track

Mark J. Zetts, MBA
AAS - Hospitality Management Program Director
(330) 941-1784
mjzetts01@ysu.edu

Students may earn an associate degree and/or a bachelor's degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful
and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food, and beverage, or event management.

The Food Service Management track provides coursework to prepare graduates to plan and implement large and small scale catered events, as well as manage and market restaurant and catering operations.

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
</tr>
</tbody>
</table>

General Education Requirements

| ENGL 1550 | Writing 1                               |
| or ENGL 1549 | Writing 1 with Support                  |
| ENGL 1551 | Writing 2                               |
| CMST 1545 | Communication Foundations               |
| MATH 2623 | Quantitative Reasoning                  |

Select 2 courses from 2 domains: Natural Sciences (one must include a lab), Social Sciences, A&H

| HMGT 3745 | Hospitality Managerial Accounting 1    |
| or FNUT 1551 | Normal Nutrition                      |
| HMEC 1550 | Human Ecology Professions              |
| FNUT 1553 & 1553L | Food Science and Management Principles |
| FNUT 1553 & 1553L | and Food Science and Management Principles Laboratory |
| HMGT 2603 | Hospitality Managerial Accounting 1    |
| HMGT 2691 | Hospitality Cooperative Work Experience (Permit required, see advisor. Student must sign up for permit prior to registration.) |
| HMGT 3719 | Facilities Management                  |
| HMGT 3745 | Hospitality Marketing and Sales        |

Food and Beverage Management

| FNUT 2612 & 2612L | Food Systems: Operation, Production, and Service |
| HMGT 3725         | Food and Beverage Management               |

Electives

| FNUT 2610          | Organization and Management               |
| HMGT 2691          | Hospitality Marketing and Sales           |
| HMEC 1550          | Facilities Management                     |
| FNUT 2603          | Hospitality Managerial Accounting 1       |
| CMST 1545          | Communication Foundations                  |
| FNUT 2612          | Food Systems: Operations, Production, and Service |
| FNUT 2612L         | Food Systems: Operations, Production, and Service Laboratory |

Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
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- Demonstrate the ability to market hospitality goods and services effectively and responsibly.
- Analyze legal, ethical, and socio-political considerations affecting organizations to make management decisions.
- Demonstrate use of accepted accounting practice and sound financial management.

**Bachelor of Science in Applied Science in Hospitality Management**

(330) 941-3279

**Hospitality Management**

The hospitality management program provides students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States, but globally.

Students may earn an associate degree (AAS - 2 year) and/or a bachelor’s degree (BS - 4 year) with a major in Hospitality Management. The Associate of Applied Science degree articulates seamlessly with the baccalaureate degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

For more information, visit the Criminal Justice and Consumer Sciences Department at Cushwa Hall Room 2161.

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### COURSE TITLE S.H. **FIRST YEAR REQUIREMENT - STUDENT SUCCESS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
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</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Humanities (6 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>or PHIL 2628</td>
<td>Business Ethics</td>
<td></td>
</tr>
<tr>
<td>Arts and Humanities Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences (2 courses; 1 with lab) (6-7 s.h.)</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>SPA Elective</td>
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<tr>
<td>Social Sciences (6 s.h.)</td>
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<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3</td>
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</table>

**Support Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Major Requirements**

Must earn a C or better, Courses cannot be taken Credit/No Credit

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMEC 1550</td>
<td>Human Ecology Professions</td>
<td>1</td>
</tr>
<tr>
<td>HMG 1500</td>
<td>Introduction to Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 1553</td>
<td>Food Science and Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>or 1553L</td>
<td>Food Science and Management Principles Laboratory</td>
<td></td>
</tr>
<tr>
<td>HMG 2603</td>
<td>Hospitality Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>or ACCT 1503</td>
<td>Elementary Accounting</td>
<td></td>
</tr>
<tr>
<td>FNUT 1512</td>
<td>Food Safety and Sanitation</td>
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</tbody>
</table>

**COURSE TITLE S.H. **SECOND YEAR REQUIREMENT - STUDENT SUCCESS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNUT 2612 &amp; 2612L</td>
<td>Food Systems: Operation, Production, and Service + Food Systems: Operations, Production, and Service Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>HMG 2622</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
<tr>
<td>HMG 2691</td>
<td>Hospitality Cooperative Work Experience</td>
<td>3</td>
</tr>
<tr>
<td>HMG 3719</td>
<td>Facilities Management</td>
<td>4</td>
</tr>
<tr>
<td>CHFM 3731</td>
<td>Individual and Family Development</td>
<td>3</td>
</tr>
<tr>
<td>HMG 3745</td>
<td>Hospitality Marketing and Sales</td>
<td>4</td>
</tr>
<tr>
<td>HMG 4804</td>
<td>Hospitality Industry Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HMEC 4836</td>
<td>Internship</td>
<td>4</td>
</tr>
<tr>
<td>HMEC 4890</td>
<td>Communication of Contemporary Issues</td>
<td>3</td>
</tr>
<tr>
<td>HMG 4896</td>
<td>Hospitality Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Select 6 upper-division electives**

**Concentration in Human Ecology or Minor**

Select (A) Concentration in Human Ecology courses or (B) a Minor.

A. Concentration in Human Ecology

Select 12 s.h. in CHFM, HMG, FNUT, HMEC or MRCH coursework.

Select 6 s.h. upper-level electives.

B. Minor and Electives to reach 120 hours

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<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>HMG 1500</td>
<td>Introduction to Hospitality Industry</td>
</tr>
<tr>
<td>Social and Personal Awareness Elective</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 1553 &amp; 1553L</td>
<td>Food Science and Management Principles Laboratory</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
</tr>
</tbody>
</table>

**Semester Hours**

16

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>HMEC 1550</td>
<td>Human Ecology Professions</td>
<td>1</td>
</tr>
<tr>
<td>HAHS 1500</td>
<td>Strong Start FYE</td>
<td>2</td>
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**Semester Hours**

15

**Year 2 | Fall S.H.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNUT 1512</td>
<td>Food Safety and Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>FNUT 2612</td>
<td>Food Systems: Operation, Production, and Service</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 2612L</td>
<td>Food Systems: Operation, Production, and Service Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>HMG 2603</td>
<td>Hospitality Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Hours**

16

**Spring**

<table>
<thead>
<tr>
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<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science + Lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PHIL 2625 or PHIL 2628</td>
<td>Introduction to Professional Ethics or Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HMG 2691</td>
<td>Hospitality Cooperative Work Experience</td>
<td>3</td>
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<tr>
<td>HMG 2622</td>
<td>Hotel Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Hours**

16

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YSU 2021-2022 Undergraduate Catalog 351
For advising on the Minor in Fashion, please contact Dr. Priscilla Gitimu at pngitimu@ysu.edu

Learning Outcomes
At the completion of the hospitality management program, graduates will be able to:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation and environmental protection procedures in hospitality.
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- Demonstrate use of accepted accounting practice and sound financial management.

Minor in Fashion
For advising on the Minor in Fashion, please contact Dr. Priscilla Gitimu at pngitimu@ysu.edu

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MRCH 1506</td>
<td>Clothing and Image Development</td>
<td>3</td>
</tr>
<tr>
<td>MRCH 2625</td>
<td>The World of Fashion</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four of the following:
- MRCH 3715 Fashion Promotion and Fashion Show Production 3
- MRCH 3740L Computer Applications for Textiles & Apparel Lab (P) 3
- MRCH 3760 Visual Merchandising 3
- MRCH 4877 History of Fashion 3
- MRCH 3730 Social Psychology of Clothing and Appearance (P) 3
- MRCH 3705 Fashion Textiles (P) 3

Total Hours 15

Department of Health Professions
330-941-3327

The department offers certificate, associate, baccalaureate, and master’s degree programs for future members of the health care delivery and public health professions.

General Education Courses
The department offers multiple courses that satisfy general education requirements.


- Please note that in order for KSS 1500 (https://catalog.ysu.edu/search/?P=KSS%201500) Physical Activity Core Concepts to count in the SPA domain, students must take any two KSS Activity Courses (https://catalog.ysu.edu/courses/kss/) in addition to KSS 1500 (https://catalog.ysu.edu/search/?P=KSS%201500) Physical Activity Core Concepts. These courses do not have to be taken concurrently.

Associate programs are offered in:
- Emergency Medical Services
- Medical Laboratory Technology

Baccalaureate programs are offered in:
- Allied Health Completion Program
- Dental Hygiene*
- Didactic Program in Dietetics
- Exercise Science
- Public Health, Health Education/ Health Promotion Track
- Public Health, Environmental Health Track
- Medical Laboratory Science*
- Respiratory Care*
- Gerontology
- Long Term Care Administration

Online Undergraduate Degree Programs
- Allied Health (BSAS)
- Public Health (BSAS)

Certificate programs are offered in:
Minors are offered in:
- Minor in Community Health Planning and Evaluation
- Minor in Environmental Health and Safety
- Minor in Public Health
- Minor in Wellness
- Minor in Gerontology

Master’s degree programs are offered in:
- Respiratory Care
- Dietetics Future Model (DFM) – Master’s in Public Health (MPH)
- Gerontology

The master’s degree program in respiratory care is available for licensed respiratory therapists. The master’s in Dietetics Future Model (DFM) program is a hybrid dietetics and public health master’s degree. This program uses a competency-based education model (CBM). The Gerontology master’s degree has an interdisciplinary focus on social epidemiology and aging. The program differs from the few others of its kind in the state, and it joins only a small number of other programs in the country. For more information regarding the Respiratory Care program, the Dietetics in Public Health, or Gerontology, refer to the graduate catalog.

* There is a restriction on the number of students that can be accepted into the following programs since only a limited number of students can be accommodated: Medical laboratory science (medical technology), dental hygiene, and respiratory care. Detailed information on admission criteria and closing dates for applications are available in the Department of Health Professions, the Bitonte College of Health and Human Services Dean’s Office, or the Admissions Office.

Important Notice
Fingerprinting, a criminal background check, and drug testing may be required as a condition for working with a variety of sites used by programs offered in this department. Some sites used by programs offered in the department require that a person have no felony convictions and have passed a drug test within the past year. Students unable to meet these site requirements may not be able to complete their degree from the department. If you have questions concerning these requirements, please see an advisor in the department.

For additional information, please visit the Office of Distance Education by e-mail distanceed@ysu.edu or by phone at (330) 941-1516.

Acting Chair
Mary Yacovone, M.Ed., Professor, Acting Chair
Professor
Kelly Colwell, Ed.D., Assistant Professor
Tiffany F. Hughes, Ph.D., Associate Professor
Debbie Jurauz, D.D.S., Professor
Diane P. Kandray, Ed.D., Professor
Sara Michalisyn, Ph.D., Associate Professor
Joan O’Connell-Spalla, M.S., Assistant Professor
Ruth Palich, M.H.H.S., Assistant Professor
Nicolette Powe, Dr.P.H., Assistant Professor
Amanda Roby, M.H.H.S., Assistant Professor
Salvatore Sanders, Ph.D., Professor
Suzanne Smith, M.Ed., Associate Professor
Silvia Stefan, Ed.D., Assistant Professor
Daniel J. Van Dussen, Ph.D., Professor
Lecturer
Ida Fusillo, M.P.H., Senior Lecturer
Susan E. Kearns, M.S.N., Senior Lecturer
Garrett Kellar, Ed.D., Lecturer

Associate Programs
- Emergency Medical Services (p. 368)
- Medical Laboratory Technician (MLT-AAS) (p. 369)

Baccalaureate Programs
- Allied Health Baccalaureate - Completion Program (p. 371)
- Dental Hygiene (p. 380)
- Didactic Program in Dietetics (p. 372)
- Exercise Science (p. 393)
- Food and Nutrition - Graduate Track (p. 374)
- Public Health, Health Education/Health Promotion Track (p. 378)
- Public Health, Environmental Health Track (p. 376)
- Medical Laboratory Science (MLS-BSAS) (p. 383)
- Respiratory Care (p. 386)
- Gerontology (p. 397)
- Long Term Care Administration (p. 399)

Certificates
- Health Information Systems (p. 392)
- Paramedic (p. 368)
- Polysomnography (p. 387)
- Applied Gerontology (p. 401)

Minors
- Minor in Community Health Planning and Evaluation (p. 392)
- Minor in Environmental Health and Safety (p. 393)
- Minor in Public Health (p. 393)
- Minor in Gerontology (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/department-sociology-anthropology-gerontology/gerontology-minor/)
Allied Health

AHLT 1500 Introduction to Online Learning in Health Professions 3 s.h.
Prepare students to take online courses including the use of the Blackboard learning environment and orient students to YSU and YSU's Health Professions programs. Help students acquire basic skills to be successful in online learning and emphasize skills and resources necessary to be successful in their personal, academic and career-related pursuits. In addition, this course will introduce students to topics such as career assessment and how to become a successful health professional in the 21st Century. Should be taken during a student's first 30 hours at YSU. Listed also as PHLT 1500 and RESC 1500.
Prereq.: PHLT, AHLT or RESC major.

AHLT 1502 Applied Pathophysiology 4 s.h.
Introduction to clinical anatomy, physiology, and pathophysiology with application to acute and chronic illness.

AHLT 3704 Quantitative Methods in Health Sciences 3 s.h.
This course is designed to provide the Health Care Professional with the ability to read and critically evaluate published research results and reports. Also, to become an educated consumer of medical/dental research and apply evidence based decision making. Critique research results to make judgments regarding the relevance, creditability and usefulness to clinical decision making. Allows for application of research results in the clinical setting.
Prereq.: MATH 2623 or consent of the instructor.

AHLT 3705 Pharmacotherapeutics 3 s.h.
Advanced concepts and integration of various drug interactions as applied to modern drug therapy. Analysis of drug regimens related to a broad spectrum of pathologic conditions.
Prereq.: BIOL 1545 or BIOL 1551 and BIOL 1552, or permission of instructor.

AHLT 3706 Practice Management for Dental Hygiene 3 s.h.
Management of dental hygiene care including appointment control, developing and maintaining recall systems, and insurance management. Dental marketing problem solving and the business relationship between dental patients and dental hygiene professionals.
Prereq.: DHYG 2628.

AHLT 3707 Clinical Informatics for the Healthcare Provider 3 s.h.
Application of health informatics by the practicing clinician in the clinical setting. Foundational and Structural Interoperability is provided to address the changing health care needs within the United States.
Prereq.: AHLT 3711 or consent of the instructor.

AHLT 3708 Preventive Public Health Care 3 s.h.
Prereq.: BIOL 1545 or BIOL 1551 and BIOL 1552, or permission of instructor.

AHLT 3709 Elements of Urban Environmental Health Practices 3 s.h.
Focus on development and implementation issues of environmental and public health programs necessary for urban and rural communities to meet acceptable public health standards at the local health department level with emphasis on resources and staffing. AHLT 3708, or permission of instructor. Also listed as PHLT 3709.

AHLT 3710 Gerodontology 3 s.h.
In-depth study of geriatrics as it relates to dental hygiene care and specific concerns of the elderly. An extramural experience with a geriatric patient.
Prereq.: DHYG 1513.

AHLT 3711 Health Care Information Systems 3 s.h.
The course is comprehensive analysis of the concepts and applications of medical informatics. Relevant technologies and "real world" skills are presented in the field of Medical Informatics using data and medical software.
Prereq.: AHLT 3704 or consent of instructor.

AHLT 3717 Health Care Policy 3 s.h.
A comprehensive overview of the American healthcare system. Particular attention given to the design and implementation of the Affordable Care Act.
Prereq.: BIOL 1545 or EMS 1501 or MATC 2600 or MLT 1501 or AHLT major or POL 1560 or permission of instructor.

AHLT 3720 EMS Management 3 s.h.
A review of EMS system design, staffing, chain of command, medical education, policies and procedures, record keeping, inter-agency relationships, community resources and involvement, and legal aspects relevant to private and public emergency medical services.
Prereq.: EMS 2614.

AHLT 3721 Pediatric Emergency Care 3 s.h.
A study of the pathophysiology, symptomatology, advanced diagnostic and therapeutic techniques of medical and traumatic emergencies unique to the pediatric patient.
Prereq.: EMS 2640.

AHLT 3740 Pathology of Infectious Diseases 3 s.h.
Pathology, prevention, transmission, and treatment of infectious disease; emphasis on nosocomial, opportunistic, and emerging bacterial, fungal, parasitic, and viral organisms.
Prereq.: BIOL 1545 or BIOL 1551 and BIOL 1552, or permission of instructor.

AHLT 3745 Impact of Medical Records on Healthcare Reimbursement 3 s.h.
This course is designed to provide the Health Care Professional with knowledge of private, group and government insurance submissions, as well as the diagnostic and procedural coding system to manage electronic medical records. A review of ethical and legal requirements will be examined in relation to laws and regulations as they apply to insurance submission and electronic health records as well.
Prereq.: MATC 2602, MATC 2612 or MATC 2600 or approval from instructor.

AHLT 3755 Principles of Occupational Health and Safety 3 s.h.
Contemporary concepts of occupational health and safety as they apply to health-related environments. Includes development of elements needed to implement comprehensive health and safety plans.
Prereq.: AHLT 3708.

AHLT 4801 Special Topics 1-3 s.h.
The directed study and research of a special problem or issue related to the health field. The topic of interest allows the student to participate in the investigation of aspects of administration, education, business, or research as these pertain to the particular health specialty. May be repeated for a total of 6 s.h.
Prereq.: AHLT 5840 or permission of instructor.

AHLT 4804 Stress and the Health Care Professional 3 s.h.
Personal reactions of those involved in health education or the delivery of health care to patients, families, and their health environment. Indicators of stress and coping strategies, organizational systems, communication theory, conflict resolution, problem solving, and burnout.
Prereq.: AHLT 5840 or permission of instructor.

AHLT 4805 Health Education for Allied Health 3 s.h.
University as well as hospital-based programs reviewed in regard to accreditation, clinical vs didactic instruction, use of simulations, and evaluation techniques. Public health education and the role of the Allied Health professional. A major learning unit and/or research project required.
Prereq.: AHLT 5840 or PHLT 3701 or permission of instructor.

AHLT 4806 Research Methods 3 s.h.
Measurement and interpretation of health data and their application in the research process. Research design considerations, data collection methods, and data analysis of health care research projects.
Prereq.: AHLT 3704.

AHLT 4808 Environmental Health Concerns 3 s.h.
Industrial hygiene, hazardous and infections waste, air and quality, and sanitation policies in health care facilities. Pertinent federal, state, and local legislation.
Prereq.: AHLT 3708 or permission of instructor.
**AHLT 4810 Management Skills for Health Professionals** 3 s.h.
A study of the conceptual framework of supervision in Health Care Organizations with emphasis on managerial skills, formulation of policies, principles of budgeting, performance appraisals, and community relations. **Prereq.:** AHLT 5840, AHLT 4805, or permission of instructor.

**AHLT 4813 Adult Cardiac and Pediatric Advanced Life Support** 3 s.h.
Twelve-lead ECG interpretation, cardiovascular pharmacology, advanced airway management, vascular access, and resuscitation techniques used in the management of adult cardiac and pediatric emergencies. Successful completion of the course will result in AHA ACLS and PALS certification. Two hours of lecture and three hours of lab. **Prereq.:** AHLT 3705 or permission of instructor.

**AHLT 4820 Directed Research** 3 s.h.
Individual study of an issue related to the health care field. Students must present research at a faculty and student forum. **Prereq.:** Senior standing and AHLT 4806 or a research methods course approved by the course instructor. Gen Ed: Capstone.

**AHLT 4825 Patient Advocacy for the Health Professional** 3 s.h.
This course is designed for the health care professional and focuses on basic concepts of patient advocacy in healthcare facilities. Examines the problems in healthcare quality and how advocacy by professionals can ensure that best practices are adopted. An emphasis on conceptual frameworks, debates, and ethical issues within the field are utilized. Patient centered care, patient safety systems, patient involvement and leadership design, delivery and access will be addressed. **Prereq.:** Junior Status, AHLT 3708, or consent of the instructor.

**AHLT 4831L Industrial Hygiene Laboratory** 1 s.h.
Application of basic concepts of industrial hygiene including anticipation, recognition, and evaluation of environmental and safety hazards as they pertain to the workplace. **Prereq.:** AHLT 3708, or permission of instructor.

**AHLT 4835 Health Care Diversity** 1 s.h.
Strategies of communication that enable the student to understand socioeconomic, political, ethnic, and religious diversity in health care. **Prereq.:** AHLT 5840 or permission of instructor.

**AHLT 5807 Epidemiology** 3 s.h.
A study of the interrelationships of the host, agent, and environment in determining the causation, frequency, and distribution of disease. **Prereq.:** AHLT 3708, AHLT 5840, AHLT 4806, or permission of instructor.

**AHLT 5816 Environmental Regulations** 3 s.h.
Structure and function of federal, state, and local agencies responsible for implementing environmental legislation. Emphasis on the duties and authority of different health and environmental agencies and specific legislation dealing with environmental impacts. **Prereq.:** AHLT 3708, AHLT 5807 or permission of instructor.

**AHLT 5831 Industrial Hygiene** 3 s.h.
Basic concepts of industrial hygiene including anticipation, recognition, and evaluation of environmental and safety hazards as they pertain to the workplace. **Prereq.:** AHLT 3708, AHLT 4808 or permission of instructor.

**AHLT 5840 Comparative Health Systems** 3 s.h.
Problems and issues facing global health care systems including access to care, financing and rationing of services. A major project is included. **Prereq.:** AHLT 3708 or permission of instructor.

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**Dental Hygiene**

**DHYG 1514L Clinical Dental Hygiene Remediation** 1 s.h.
This course is designed to improve the dental hygiene student’s clinical skills, and to develop the basic competencies essential for performing invasive dental hygiene procedures. The student’s individual clinic deficiencies will be addressed, along with patient management and time utilization. This course may be repeated one time. Four hours of clinic per week for twelve weeks. **Prereq.:** Unsatisfactory progress in clinical dental hygiene and/or recommendation of the clinic coordinator.

**DHYG 2601 Dental Hygiene 1** 3 s.h.
An introduction to providing dental hygiene care. Theories and principles of patient assessment, prevention of disease transmission, instrumentation, instrument sharpening, and coronal polishing. Application of risk assessment as it relates to the treatment plan through case studies. **Prereq.:** Admission to the Dental Hygiene Program.

**DHYG 2601L Clinical Dental Hygiene 1** 2 s.h.
Preclinical dental hygiene instruction in a simulation laboratory. Introduction of basic dental hygiene procedures and equipment operation. Six hours of lab per week. **Prereq.:** Admission to the Dental Hygiene Program.

**DHYG 2602 Dental Hygiene 2** 2 s.h.
Discussion of appropriate preventive dental agents and devices to improve various dental conditions and implementation techniques. Development of individualized patient education instruction and a tobacco cessation program as part of the dental hygiene care plan. **Prereq.:** DHYG 2601.

**DHYG 2602L Clinical Dental Hygiene 2** 2 s.h.
Continuation of pre-clinical dental hygiene instruction in the clinical setting. Includes comprehensive patient care planning and implementation techniques. Twelve hours of lab per week. **Prereq.:** DHYG 2601L.

**DHYG 2620 Head and Neck Anatomy** 2 s.h.
A study of the anatomy of the head and neck, oral structures and tooth morphology. **Prereq.:** Admission to the Dental Hygiene program.

**DHYG 2620L Head and Neck Anatomy Lab** 1 s.h.
Applied study of the anatomy of the head and neck, oral structures and tooth morphology. Three hours of lab per week. **Prereq.:** Admission to the Dental Hygiene program.

**DHYG 2630 Management of Medical/Dental Emergencies** 2 s.h.
Instruction in the prevention, recognition, and management of medical emergencies in the dental office. Emphasis on case studies to develop critical thinking and decision-making skills in patient management. **Prereq.:** Admission to the Dental Hygiene Program.

**DHYG 2640 Oral Histology** 2 s.h.
A study of the tissues of the human body and embryological development. **Prereq.:** DHYG 2620.

**DHYG 3703 Dental Hygiene 3** 3 s.h.

**DHYG 3703L Clinical Dental Hygiene 3** 3 s.h.
Clinical application of dental hygiene techniques on student partners and clinic patients. Emphasis on applied preventive measures and patient education. Nine hours of clinic per week. **Prereq.:** DHYG 2602L.

**DHYG 3704 Dental Hygiene 4** 3 s.h.
Concepts of nutrition science as they relate to the evaluation and education of dental hygiene patients with emphasis on caries risk assessment. **Prereq.:** DHYG 3703.
DHYG 3704L Clinical Dental Hygiene 4 3 s.h.
Clinical application of dental hygiene techniques. Emphasis on the interpretation of patient assessment and evidence-based research to evaluate patients’ oral health and to develop effective treatment plans. Nine hours of clinic per week.
Prereq.: DHYG 3703L.

DHYG 3750 Oral Pathology 2 s.h.
The cause and nature of disease, together with anatomical, histological and functional changes. Observation and evaluation of the patient’s systemic and oral health status as it relates to treatment planning. Special emphasis is given to oral pathology and case studies.
Prereq.: DHYG 2640.

DHYG 3760 Dental Radiology 3 s.h.
History and development of radiographs, radiographic technique and techniques, hazardous effects of radiation, and methods of protection. Emphasis on interpretation of normal anatomic structures and pathologic entities; and the use of diagnosis in prevention of dental and related diseases.
Prereq.: DHYG 2602L.

DHYG 3760L Dental Radiology Lab 1 s.h.
The techniques necessary to expose, develop, and mount dental films with emphasis in radiographic interpretation. Three hours of lab per week.
Prereq.: DHYG 2602L.

DHYG 3770 Periodontology 3 s.h.
The study of prevention, diagnosis, and treatment of diseases affecting the gingival and supporting structures of the teeth, as well as implant placement and maintenance. Emphasis is on acquisition of knowledge of the histopathology of disease and the biologic basis for periodontal therapy.
Prereq.: DHYG 2640.

DHYG 3780 Pharmacology 2 s.h.
Importance of pharmacological aspects of those drugs and drug groups with which the dentist and dental hygienist are directly and indirectly concerned. Application of pharmacology in treatment planning.
Prereq.: DHYG 2650.

DHYG 3790 Local Anesthesia and Pain Control for Dental Hygienists 2 s.h.
Instruction in the anatomy, physiology, pharmacology, and administration of local anesthesia and other pain control methods.
Prereq.: DHYG 3703L or permission of the Program Director.

DHYG 3790L Local Anesthesia and Pain Control Clinic 1 s.h.
Application of the techniques of local anesthetic administration and pain control on anatomical models and clinical partners. Three hours of clinic per week.
Prereq.: DHYG 3703L or permission of the Program Director.

DHYG 4805 Dental Hygiene 5 3 s.h.
The role of the dental hygienist in providing care for special needs patients by recognizing the necessary treatment plan modifications due to physical, mental, medical, and social factors.
Prereq.: DHYG 3704.

DHYG 4805L Clinical Dental Hygiene 5 4 s.h.
Advanced clinical application of dental hygiene techniques with emphasis on patient management and radiographic assessment resulting in an individualized and comprehensive treatment plan for periodontal patients. Twelve hours of clinic per week.
Prereq.: DHYG 3704L.

DHYG 4806 Dental Hygiene 6 2 s.h.
A study of dental specialties enhancing students’ knowledge, and understanding. Indications for referral, specialized instruments, diagnostic tests, and specific oral hygiene instructions will be discussed.
Prereq.: DHYG 4805.

DHYG 4806L Clinical Dental Hygiene 6 4 s.h.
Continued application of dental hygiene techniques with emphasis on professionalism and competency in private practice. Twelve hours of clinic per week.
Prereq.: DHYG 4805L.

DHYG 4830 Dental Materials 1 s.h.
The sources, physical properties, methods of manufacturing, and uses of various dental materials. Emphasis on the newest products, and interpretation of research supporting product effectiveness.
Prereq.: DHYG 3704L.

DHYG 4830L Dental Materials Lab 1 s.h.
Clinical application of selected dental materials and four-handed dentistry enhancing the students’ understanding of dental procedures. Technical procedures and delegated responsibilities will be completed on manikins, and student partners.
Prereq.: DHYG 3704L.

DHYG 4840 Directed Dental Hygiene Research 3 s.h.
Development of research skills including problem identification, development of a hypothesis, research design, data collection, analysis, and interpretation. Approved dental hygiene topics will be completed as a group under faculty supervision.
Prereq.: AHLT 4806.
Gen Ed: Capstone.

DHYG 4845 Expanded Functions for the Dental Hygienist 3 s.h.
Review of tooth morphology, properties and manipulation of dental restorative materials and techniques for restoring teeth with amalgam and tooth colored direct restorations. Concepts of four-handed dentistry and knowledge to perform as an Expanded Functions Dental Auxiliary (EFDA).
Prereq.: DHYG 2620, DHYG 2620L and junior standing or consent of instructor.

DHYG 4845L Expanded Functions for the Dental Hygienist Lab 1 s.h.
Laboratory application of restorative techniques utilizing the principles and skills of restorative four-handed dentistry. Preparation of the dental hygiene student to perform the duties of an expanded function dental auxiliary.
Prereq.: DHYG 2620, DHYG 2620L and junior standing or consent of instructor.
Coreq.: DHYG 4845.

DHYG 4850 Dental Public Health 3 s.h.
An introduction to public health dentistry, a study of the epidemiology of dental disease, writing grant proposals, and implementation of health promotion theories. Preventing and controlling dental disease through organized community efforts is addressed.
Prereq.: DHYG 4805.

DHYG 4850L Community Clinicals 1 s.h.
Oral health care services provided by senior dental hygiene students at community sites. Culturally competent care to underserved populations is the primary course emphasis. Forty-five hours of community clinical experience throughout the semester.
Prereq.: DHYG 4805L.

DHYG 4855L Expanded Functions Clinical 2 s.h.
Clinical implementation of expanded functions dental auxiliary skills gained in DHYG 4845L. Planned, evaluated and supervised clinical experience.
Prereq.: DHYG 2620, DHYG 2620L, and DHYG 4845L or consent of instructor.

DHYG 4860 Ethics and Practice Concepts 2 s.h.
The historical, professional, legal, and ethical aspects of dental hygiene. Study of practice management topics relevant to the changing roles of hygienists with emphasis on quality care in a patient-centered practice.
Prereq.: DHYG 4805.

Emergency Medical Services

EMS 1500 Emergency Medical Technician 4 s.h.
Provides the basic knowledge and skills to be an Emergency Medical Technician. Meets all National Highway and Safety administration National Emergency Medical Services Education Standards and the State of Ohio Approved Emergency Medical Services Curriculum Standards for the Emergency Medical Technician. Must be taken concurrently with EMS 1500L and EMS 1500C.
EMS 1500C Emergency Medical Technician Clinical and Field Internship 1 s.h.
Clinical and Field Internship experience necessary to acquire the skills required to be an Emergency Medical Technician. Meets all national and state curriculum standards for the EMT. Must be taken concurrently with EMS 1500 and EMS 1500L. Ten hours per week after week 12.

EMS 1500L Emergency Medical Technician Laboratory 2 s.h.
Laboratory experience necessary to acquire skills required to be an Emergency Medical Technician. Meets all National and State curriculum standards for the EMT. Six hour lab. Must be taken concurrently with EMS 1500 and EMS 1500C.

EMS 1501 Introduction to Prehospital Medicine 1 s.h.
Introduction to the roles, responsibilities, EMS systems, and medical and legal considerations of the EMS profession.
Prereq.: Admission to the EMS program.

EMS 1502 General Pathophysiology for the Paramedic 3 s.h.
Study of general lifespan development of the body, how pathophysiologic changes affect it. Provides a foundational basis for viewing the body as a system, understanding its functions, anticipated reaction to injury, illness and intervention.
Prereq.: Admission to EMS program or permission of instructor.

EMS 1503 Patient Assessment and Airway Management 3 s.h.
Intensive course designed to prepare the student in the methodology of advanced patient assessment, and the relevance of clinical signs and symptoms identified. Airway anatomy, equipment, procedures as they pertain to advanced airway management.
Prereq.: Admission to EMS program or permission of instructor.

EMS 1504 Principles of Trauma 3 s.h.
Study of general traumas seen prehospital and in the hospital. Includes simulated emergency traumatic situations and actual patient contact emphasizing physical assessment, patient interviewing, and management techniques. Meets 3 hours per week. Must be taken concurrently with EMS 1501, EMS 1502, EMS 1503, and EMS 1504.
Prereq.: Admission to the EMS program or special permission of program director.

EMS 1506 Emergency Medical Services Clinical 1 1 s.h.
Clinical experiences in the emergency department and in the operating room allowing the student to work on various skills necessary for the paramedic. Total of 90 clinical hours. Must be taken concurrently with EMS 1503 and EMS 1505.
Prereq.: Admission to EMS program or permission of instructor.

EMS 1507 Cardiovascular Emergencies 3 s.h.
Intense study of the etiology, pathophysiology, symptomatology, and management principles for cardiovascular emergencies. Includes electrophysiological principles of EKG interpretation. Must be taken concurrently with EMS 1508.
Prereq.: Admission to EMS program or permission of instructor.

EMS 1508 Cardiovascular Techniques Lab 1 s.h.
Performance of fundamental techniques employed in the management of cardiovascular emergencies. Three hours lab per week. Must be taken concurrently with EMS 1507.
Prereq.: EMS 1502, EMS 1503, and EMS 1504.

EMS 1512 Medical Conditions and Management Techniques 3 s.h.
Study of pathophysiology, symptomatology, etiology, and management techniques of commonly encountered medical emergencies. Must be taken concurrently with EMS 1513.
Prereq.: EMS 1502, EMS 1503, EMS 1504.

EMS 1513 Emergency Medical Techniques 2 Lab 1 s.h.
Simulated situations and actual patient contact emphasizing performance of emergency medical techniques utilized to manage common medical emergencies. Must be taken concurrently with EMS 1512.
Prereq.: EMS 1505.

EMS 1514 Emergency Medical Services Operations 1 s.h.
Introduction to common rescue tools and techniques utilized in basic victim disentanglement and extraction.
Prereq.: Admission to EMS program or permission of instructor.

EMS 1515 Clinical Experience 2 1 s.h.
Hospital clinical experience to include rotations through the following: Adult emergency department, critical and intensive care units. Total of 95 hours. Must be taken concurrently with EMS 1508 and EMS 1513.
Prereq.: EMS 1506.

EMS 1516 Prehospital Field Experience 1 1 s.h.
Field experience with an approved advanced life support unit under the direct supervision of a selected paramedic field preceptor. Total of 200 hours. To be taken concurrently with EMS 1507 and EMS 1512.
Prereq.: EMS 1504.

EMS 2600 Emergency Medical Services Special Populations 3 s.h.
Study of etiology, pathophysiology, symptomatology and management of special needs patients. Includes gynecology, obstetrics, neonatology, pediatrics, geriatrics, behavioral, abuse/assault, infectious and communicable diseases, and chronic care. Must be taken concurrently with EMS 2601.
Prereq.: EMS 1507 and EMS 1512 or permission of instructor.

EMS 2601 Emergency Medical Techniques 3 Lab 1 s.h.
Techniques necessary to effectively manage conditions in EMS 2600. Three hour lab. Must be taken concurrently with EMS 2600 and EMS 2605.
Prereq.: Admission to the EMS program or permission by program director.

EMS 2603 Clinical Experience 3 2 s.h.
Precepted hospital clinical in the adult and pediatric emergency department; obstetrics, labor and delivery; and, psychiatric department. Total of 120 hours of clinical experience. Must be taken concurrently with EMS 2600.
Prereq.: EMS 1515.

EMS 2604 Prehospital Field Experience 2 1 s.h.
Performance of advanced life support procedures under the direct supervision of a selected paramedic field preceptor. Total of 150 hours.
Prereq.: EMS 1516.

EMS 2605 Pulmonary Emergencies 3 s.h.
Intense study of the etiology, pathophysiology, symptomatology, and management principles of pulmonary emergencies. Must be taken concurrently with EMS 2601.
Prereq.: EMS 1507 and EMS 1512.

EMS 2606 EMS Special Certifications 1 s.h.
Provides the Paramedic with certifications beneficial to prehospital care. These certifications are nationally recognized and commonly sought after by paramedics, and desired by employers. Include PALS, PHTLS, NRP, and EMPACT. To be taken concurrently with EMS 2607.
Prereq.: Admission to EMS program or special permission of instructor.

EMS 2607 EMS Special Certifications Lab 1 s.h.
Focus on skills and competencies required for PALS, PHTLS, NRP. To be taken concurrently with EMS 2606.
Prereq.: Admission to the EMS program or special permission by the program director.

EMS 2609 EMS Prehospital Field Internship 3 s.h.
Capstone Field Internship experience requiring the paramedic student to perform successfully as a team leader on an advanced life support unit in the prehospital setting. A minimum of 30 team leads is required with an assigned field preceptor. Approximately 22 hours of field internship per week.
Prereq.: EMS 2604.
EMS 2613  Critical Care Paramedic  3 s.h.
In-depth study of the underlying abnormalities and physiologic disturbances resulting from traumatic injuries and medical illnesses as it relates to emergency medical care. Includes analysis of case studies. Must be taken concurrently with EMS 2614.
Prereq.: EMS 2609, or permission of instructor.

EMS 2614  Critical Care Paramedic Laboratory  1 s.h.
Designed to prepare the student as a competent care provider in the transport of critical patients by ground or air unit. Topics include 12-leads, IABPs, RSI, lab data, ETCO2 monitoring, and advance pharmacology. Must be taken concurrently with EMS 2613.
Prereq.: NREM 5 permission of instructor.

EMS 2631  Advanced Clinical and Field Internship Experience  2 s.h.
Field internship in a variety of advanced life-support units to expose the student to hospital-based, public third service, private, and fire service EMS. Includes a field component involving wilderness rescue and emergency medicine. Must be taken concurrently with EMS 2613.

Gerontology

GERO 1501  Introduction to Gerontology  3 s.h.
Basic introduction to the interdisciplinary study of aging. Includes social, psychological, economic, cultural, health, and policy issues. Discussion of normal vs. abnormal (disease-related) aspects of aging.

Gen Ed: Social Science.

GERO 3703  Aging and Society  3 s.h.
An interdisciplinary introduction to studies in aging. Examines the impact of population aging and its effect on society at large. Also examines individual aging processes and social significance of aging. Listed also as SOC 3703.
Prereq.: SOC 1500 or GERO 1501.


GERO 3745  Sociology of Health, Illness, and Healthcare  3 s.h.
Social attitudes toward illness. Cultural and social factors in disease definition of illness, and organization of the health professions and health facilities. Listed also as SOC 3745.
Prereq.: SOC 1500, GERO 1501, or admission to NEOMED-YSU program.


GERO 3755  Theories of Gerontology  3 s.h.
Review and critical analysis of current theories of the social aspects of aging and their use in research. Listed also as SOC 3755.
Prereq.: SOC 1500 OR GERO 1501.

GERO 3756  Aging and Ethnicity  3 s.h.
Aging in American subcultures, noting differences in status/role systems, demographic distributions, life styles, methods of dealing with the elderly, and related problems. Listed also as SOC 3756.
Prereq.: SOC 1500 OR GERO 1501.

GERO 3757  Aging and Social Policy  3 s.h.
Critical examination of social policies and social systems which affect aging and retirement. Listed also as SOC 3757 and POL 3757.
Prereq.: SOC 1500, GERO 1501, or POL 1560.

GERO 3758  Long-Term Care  3 s.h.
Examines critical issues in long-term care systems, services, and programs. Impacts of social demographic and economic changes on long-term care needs, demands, and supplies. Contemporary trends and future outlooks of long-term care. Listed also as SOC 3758.
Prereq.: SOC 1500 OR GERO 1501.

GERO 3759  Physical Change and Aging  3 s.h.
Designed to provide knowledge about physical aspects of human aging and factors that affect physical aging. Students learn about physical changes that occur naturally with advancing age and changes associated with disease or disability (abnormal changes). Behavioral and inherent factors that influence physical aging are discussed with the goal to increase awareness of prevention strategies.
Prereq.: GERO 1501 or SOC 1500.

GERO 3760  Death and Dying  3 s.h.
Introduction of the topics of death and dying and the process of, with the following objectives: to sensitize the student to the subject of death and dying, to aid the student in adjusting to the death of a significant other; to help individuals examine their own feelings and reactions to the death and grieving, to make students aware of the different cultural groups’ death and bereavement, and to examine hospice and palliative care benefits. Cross-listed: SOC 3760.
Prereq.: GERO 1501 OR SOC 1500.

GERO 3761  Elder Crimes - Elder Justice  3 s.h.
Issues in gerontology and aging that affect law enforcement and the criminal justice system.
Prereq.: GERO 1501 or SOC 1500 or CJFS 1500.

Cross-listed: CJFS 3761 and SOC 3761.

GERO 3775  Dementia  3 s.h.
The understanding of the nature, causes, symptoms, and social consequences of dementia. Attention to the status of aging, caregiving, and to the status of those who suffer from dementia in contemporary society.
Prereq.: GERO 1501 or SOC 1500.

GERO 3790  Aging in Cross-Cultural Perspective  3 s.h.
Examines the phenomenon of aging from cross-cultural perspectives with an emphasis on cultural evolution and its impact upon the status, roles and cultural values associated with aging and the aged.
Listed also as SOC 3790 and ANTH 3790.
Prereq.: GERO 1501 or ANTH 1500, or SOC 1500.

GERO 4801  Later Life Issues  3 s.h.
The course is designed as an advanced course in the issues of later life and long term care services and supports.
Prereq.: SOC 4801.

GERO 4804  Family, Health, and Aging  3 s.h.
Examines family and health related aspects of aging. Positive and negative interactions among family members and caregivers, and their impact on mental and physical quality of life of the elderly.
Listed also as SOC 4904.
Prereq.: GERO 3703 or SOC 3703.

GERO 4821  Internship in Gerontology  3-15 s.h.
Application of gerontological knowledge in settings such as social agencies, government offices, hospitals, nursing homes, or industry. May be repeated up to 15 s.h., but only a maximum of 6 semester hours can be applied to the gerontology major.
Prereq.: Junior standing, 9 s.h. of Gerontology, and permission of chairperson.

GERO 4850  Research Methods  3 s.h.
An introduction to methods employed in social research. Attention is given to (1) the logic of scientific inquiry and the relationship between theory and methods; (2) the various qualitative and quantitative methods; (3) research design, data collection, organization, analysis, interpretation and application; (4) the social, cultural, political, and ethical context of social research; and (5) computer skills employed in data analysis.
Listed also as ANTH 4850 or SOC 4850.
Prereq.: SOC 3701, ANTH 3701.

GERO 4851  Capstone in Gerontology  3 s.h.
A capstone experience for the interdisciplinary study of aging. Students will complete a major research project.
Prereq.: Senior status in Gerontology and SOC 4850.
Gen Ed: Capstone.

GERO 4860  Senior Thesis  3 s.h.
A capstone experience for the major in gerontology. Designing, implementing, and completing an empirical research project and paper on a topic approved by the thesis advisor.
Prereq.: Senior status in GERO; GERO 4850 or SOC 4850.
Cross-listed: SOC 4860.

GERO 6905  Social Gerontology  3 s.h.
Social Gerontology. Integration and application of gerontological theories; major conceptual issues regarding life span development; and contemporary gerontological concepts and research.
GERO 6906  Perspectives in Gerontology  3 s.h.
Focus on the major theoretical perspectives of aging and aging related
research with a focus on health. Theories from gerontology, epidemiology,
sociology, and psychology will be covered.

GERO 6915  Service Delivery Aging Policy  3 s.h.
An interdisciplinary analysis of services for older adults including an
examination of major policies, programs, and trends in aging.

GERO 6960  Epidemiology of Aging  3 s.h.
Integration and application of epidemiologic theories; major conceptual
issues regarding epidemiology and aging; and contemporary interdisciplinary
concepts and research. Primary focus will be on the disease distribution and
leading causes of death among our aging population.

GERO 6998  Anatomy and Physiology of Aging  3 s.h.
Using a systems approach, this course will examine the anatomical and
physiological changes that occur with aging. It will discuss age-related
disorders and evaluate the impact of these changes on activities and daily
function.

GERO 6999  Research Methods  3 s.h.
This course serves as an introduction to major methodological issues and
basic statistics in the social-scientific study of gerontology. Major topics
include developmental perspective and conceptualization of change, basic
developmental research design, conceptualization of research problems,
research design, measurement, and data analysis. This course should enable
students to formulate research questions, design studies, and determine
measurement devices and methods of analysis from a developmental
perspective.

GERO 7001  Long-Term Care  3 s.h.
This course will introduce students to the following topics: who needs long
term care; population distribution of long-term care and its current trends;
long-term care industry; human medicine and long-term care; social structures
and social inequalities in long-term care; culture components of long-term
care; family care and social care; government, laws, and social policies of long-
term care; and long-term care in a global perspective.
Prereq.: GERO 6960.

GERO 7090  Field Practicum  1-9 s.h.
Students will complete a 200-hour placement in an aging-related workplace.
Variable credit 1-6 s.h. May be repeated for up to 9 s.h.

GERO 7094  Selected Topics  3 s.h.
An examination of contemporary topics in the field of gerontology. Examples
of subject areas that may be covered: Nutrition, Pharmacology, Legal, etc.
Variable credit 1-3 credit may be repeated for up to 6 credit hours.

GERO 7099  Thesis  1-3 s.h.
A substantive research project with approval of a committee chair and
committee. Variable credit 1-3 s.h. May be repeated for up to 6 s.h.

Kinesiology and Sport Science

KSS 1500  Physical Activity Core Concepts  1 s.h.
Essential concepts that document the relationship between physical activity
and maintaining optimal health. Personal and social implications of physical
inactivity are also explored. Two KSS activity courses must be taken in
addition to this course to satisfy the requirements for GER credit.

KSS 1502  Volleyball  1 s.h.
Basic rules and fundamental skills of volleyball including serves, bump,
overhead pass, and block.

KSS 1503  Flight: 1st Year Student-Athlete Experience  2 s.h.
FLIGHT: 1st Year Student-Athlete Experience is an introduction to the
student-athlete development model through development research, NCAA
programming, and practical application to prepare student-athletes for life
after athletics as they develop the necessary skills to be engaged citizens and
prepared professionals.
KSS 1521 Golf 2 1 s.h.
Intermediate golf. Refinement of swing patterns, methods of instruction, correction of errors. Emphasis on the use of various clubs and types of shots. 
Prereq.: KSS 1520.

KSS 1522 Tennis 1 1 s.h.
Fundamental skills of tennis including forehand and backhand drives and service. Basic rules, strategy, and method.

KSS 1523 Tennis 2 1 s.h.
Theory and practice of intermediate-to-advanced tennis skills and play. 
Prereq.: KSS 1522.

KSS 1524 Physical Fitness and Exercise Program 1 s.h.
Discussion and participation in activities designed to develop and improve the health-related aspects of physical fitness including weight and stress control.

KSS 1525 Marksmanship 1 s.h.
The safety and practice of handling firearms. Target shooting in prone, kneeling and standing positions.

KSS 1528 Advanced Physical Fitness and Exercise Programs 1 s.h.
Discussion of and participation in strenuous activities designed to develop and improve the health- and performance-related aspects of physical fitness.

KSS 1529 Recreational Games 1 s.h.
Fundamentals, skills, techniques, strategy, and rules of racquetball, paddle tennis, table tennis, shuffleboard, and other recreational games.

KSS 1530 Learn to Swim 1 s.h.
Introduction to swimming and survival skills, floating, drown-proofing, basic swim strokes (side, elementary back, and front crawl), beginning diving, and simple aquatic games. This course is designed for the student who cannot swim; it is not open to swimmers.

KSS 1531 Aquatics 2 1 s.h.
Intermediate swimming. Introduction to back crawl, breaststroke and butterfly. Techniques in underwater swimming; use of mask, snorkel and fins. Elementary lifesaving skills and refinement of basic springboard diving. 
Prereq.: HPES 1530.

KSS 1534 Fitness Swimming 1 s.h.
Utilization of freestyle swimming stroke to improve/maintain fitness across the lifespan. Content includes stroke mechanics, turning technique, and swim training program design to meet individual fitness and health goals. 
Prereq.: Ability to swim for 250 yards.

KSS 1537 Aquatic Exercise 1 s.h.
Fitness through aquatic conditioning exercises tailored to the individual needs of the student. Open to swimmers and non-swimmers.

KSS 1544 Step Aerobics 1 s.h.
Rhythmic exercise and conditioning activities performed to music, utilizing a step platform as the foundation of the workout. Designed to improve cardiorespiratory endurance and flexibility. Emphasis on understanding the five basic components of fitness and basic principles and techniques involved in step training.

KSS 1545 Fold and Square Dance 1 s.h.
European and Mediterranean folk dances, American Square dances, and mixers. Beginning materials and practice.

KSS 1547 Flexibility and Core Training 1 s.h.
When performed properly, flexibility can reduce injuries, help recover from injuries, correct muscle imbalances, and recover from exercise. Stretching has also been shown to promote relaxation and stress reduction. This course will cover flexibility utilizing flexbands. In addition, core work and light resistance training will be explored.

KSS 1548 Aerobic Dance 1 s.h.
Rhythmic exercises and conditioning activities performed to music. Designed to improve cardiovascular fitness, flexibility, and general muscle tone.

KSS 1549 Varsity Competition 1 s.h.
Credit may be obtained through competition in varsity athletic programs. 
Prereq.: Consent of coach.

KSS 1550 Pilates 1 s.h.
Instruction in principles of body alignment and posture and participation as it pertains to fundamental Pilates techniques.

KSS 1551 Student Athlete Experience 1 s.h.
This course will provide an orientation to student athletes on understanding the demands related to life as a student athlete. This course will focus on various topics related to life-skills such as time management and study skills, campus and community leadership, sports nutrition, professionalism and etiquette, Title IX and sexual harassment, personal financial management and budgeting, and career building and interview skills.

KSS 1552 Yoga 1 s.h.
Instruction in principles of meditation, body alignment and posture, and participation as it pertains to fundamental yoga techniques.

KSS 1553 Yoga 2 1 s.h.
Builds on the groundwork of fundamental postures, breathing, present moment awareness practices, and various methods for removal of mental and physical tensions introduced in KSS 1552. Practices are drawn from the inheritance of Yoga (Hatha and Raja), for further skill development for managing health and vitality of mind and body. 
Prereq.: KSS 1552 or consent of instructor.

KSS 1554 Fitness Walking 1 s.h.
Information on the benefits of walking for fitness. Health advantages, appropriate conditioning, pace, warm-up and cool-down. Practical experience in the skills needed to achieve success in developing and adhering to a walking program.

KSS 1555 Jogging 1 s.h.
Holistic approach to the theory and practice of jogging with emphasis on the physiological benefits.

KSS 1556 Racquetball 2 1 s.h.
Advanced racquetball techniques, strategy, conditioning, and mental preparation for singles, doubles, and tournament play. Emphasis on the use of various advanced shots, positioning, and officiating. 
Prereq.: KSS 1519.

KSS 1557 Weight Training 1 s.h.
Introduction to progressive resistive exercise for men and women. Topics include strength training, types of equipment, exercise techniques, circuit training, competitive weightlifting, body building, and injury prevention.

KSS 1558 Physical Fitness for Life 2 s.h.
Participation in exercise and physical activities, and identification of resources and assessment instruments utilized in developing an individualized, well-rounded, effective, lifelong physical fitness program. One hour lecture, two hours lab.

KSS 1559 Aerobic Conditioning Activities 1 s.h.
Practical experience in activities that improve cardiovascular endurance. Such activities include, but are not limited to, aquatics, fitness walking and jogging. 
Prereq.: Exercise science major.

KSS 1560 Resistance Training 2 s.h.
Concepts and applications of progressive resistance exercise. Emphasis on advanced principles and techniques for developing muscular strength and endurance for fitness and athletic performance. Two hours lab. 
Prereq.: major in exercise science or permission of instructor.

KSS 1563 Rock Climbing 1 s.h.
Instruction and participation in fundamental rock climbing techniques that include safely constructing anchor systems, employing belay methods, equipment selection, and beginning climbing skills.

KSS 1564 Bicycling 1 s.h.
Instruction and practice in bicycling skills, techniques, and procedures necessary for intermediate or long trips. Students must provide their own three-, five-, or ten-speed bicycle.

KSS 1565 Self Defense 1 s.h.
The defensive techniques of Judo and Aikido designed to counter attacks with a knife, club, gun or bare fist. Balance, control, safety, falling.
KSS 1566  Judo  1 s.h.
Introduction to the history, philosophy and techniques of Judo. Fundamental
techniques include falls, hand and leg throws, grappling, various holds and
joint locks.

KSS 1568  Taekwondo/Karate  1 s.h.
An introduction to the history, philosophy and techniques of taekwondo/
karate. Fundamental techniques include: stances, kicks, punches, and forms.

KSS 1569  Taekwondo Karate 2  1 s.h.
This course consists of an advanced refinement of taekwondo/karate
forms and techniques as well as the enhancement and application of their
Techniques. Students will be presented with advanced skills to further their
knowledge of the history and traditions of this martial art. This course builds
upon the basic knowledge learned from KSS 1568 (taekwondo/karate I).
Prereq.: KSS 1568.

KSS 1588  Selected Activities in Kinesiology and Sport Science  1 s.h.
Knowledge of and practice in a particular area of dance, fitness, or sport.
Activity is announced each time the course is offered. May be repeated up to 4
s.h. with change in topic.

KSS 1589  Scientific Basis of Fitness  2 s.h.
Introduction to components of physical fitness and their physiological
basis. Role of exercise in prevention of cardiovascular and other hypokinetic
diseases. Participation and application of training principles in a variety of
fitness activities. Selection and proper use of exercise equipment. One hour
lecture, two hours lab.
Prereq.: Physical education major.

KSS 1590  Foundations of Fitness  3 s.h.
Students will learn the fundamentals of fitness as it relates to lifestyle choices
and health. Discussion and participation in activities designed to develop
and improve the health-related aspects of physical fitness including weight
and stress control will be used to develop a personal fitness program through
personal goals.

KSS 1595  Introduction to Kinesiology and Sport Science  2 s.h.
Introduction to physical education, exercise science and related professions.
Includes exploration of the general concepts, goals, aims, objectives,
professional organizations, scholarly literature, sub-disciplines within the field,
and career employment opportunities.

KSS 2605  Sports First Aid and Injury Prevention  3 s.h.
Basic injury prevention, evaluation, and emergency care. Certification in ARC
Standard First Aid and Adult CPR. Basic wrapping andstrapping techniques
used with common sports injuries. Two hours lecture, two hours lab.
Prereq.: Exercise science major, Wellness minor, or consent of instructor.

KSS 2615  Methods of Teaching Rhythmic Aerobic Activity  2 s.h.
Rhythm and movement fundamentals related to aerobic dance and step
aerobics. Methods and materials of teaching rhythmic aerobic activity
culminating in practical teaching experience in the classroom. One hour
lecture, two hours lab.
Prereq.: KSS 1589.

KSS 2620  Exercise Equipment Management  1 s.h.
Factors to consider when purchasing new or used exercise equipment,
equipment repair and preventive maintenance procedures, and equipment-
related risk management.
Prereq.: Permission of instructor.

KSS 2625  Pedagogical Aspects of Exercise Science  3 s.h.
Effective instructional practices and development of organizational skills and
characteristics required for teaching in exercise programs. Two hours lecture,
two hours lab.
Prereq.: KSS 1599 or KSS 1595.

KSS 2630  Lifeguard Training  1 s.h.
Water rescue, preventive lifeguarding techniques, emergency procedures. Red
Cross certificate granted upon satisfactory completion of all requirements.
Prereq.: Ability to swim 300 yards continuously; tread water for 2 minutes.

KSS 2631  Water Safety Methods for Instructors  2 s.h.
Techniques for teaching and supervising swimming, emergency water safety,
and basic water safety. Introduction to infant and preschool aquatic programs.
A water safety instructor’s certificate granted upon satisfactory completion of all
requirements.
Prereq.: Current lifeguard training certificate or emergency water safety
certificate.

KSS 2632  Skin and Scuba Diving  2 s.h.
Basic skin-diving with the use of mask, fins, and snorkel. Scuba diving skills
with the use of tank and regulator. Emphasis on diving physics, physiology,
lifesaving, first aid, and safety skills related to skin and scuba diving. Two
hours lecture, two hours lab. Student must furnish mask, fins, and snorkel.

KSS 2635  Open Water Scuba Diving  1 s.h.
Practical experiences in physiological and psychological stress, underwater
navigation, effects of hypothermia, decompression, repetitive diving, and
rescue techniques. Students completing this course receive basic scuba
certification. Five hours lecture, ten hours lab per semester.
Prereq.: KSS 2632.

KSS 2637  Skin, Scuba and Openwater Diving  3 s.h.
Basic scuba and skin-diving skills with use of tank and regulator. Practical
experiences in physiological and psychological stress, effects of hypothermia,
decompression, and rescue techniques related to repetitive diving. Students
completing course receive basic openwater certification. Students must
furnish mask, fins, and snorkel. Two days openwater field experience. Two
hours lecture, two hours lab.

KSS 2672  Biomechanics  3 s.h.
Knowledge and methods of mechanics as they apply to the structure and
function of the living human system. Muscular structure and function in
relation to physical movement, analysis of fundamental movements. Includes
the physical characteristics of the human body and principles of mechanical
physics. Two hours lecture. Two hours lab.
Prereq.: BIOL 1552, BIOL 1552L or BIOL 1545, BIOL 1545L.

KSS 2697  Camping  2 s.h.
The specific skills and problems encountered in camping: shelter, clothing,
food, transportation, and site selection. Two hours lab.

KSS 2699  Sport in American Culture  3 s.h.
Sport in American culture from the colonial period to the present as it relates
to such areas as education, literature, film and drama, minorities, politics,
professional sport, religion and urbanization.

KSS 3700  Exercise Testing and Prescription 1  4 s.h.
Introductory exercise leadership skills including exercise testing and
prescription, and design of safe and effective programs. Includes a minimum
of 30 hours of field experience in exercise testing, leadership, observation, and
career exploration. Content based on American College of Sports Medicine
objectives.
Prereq.: KSS 1559 and KSS 1595.

KSS 3705  Statistics Research in Exercise Science  3 s.h.
Scientific methods in exercise science including research design and
statistical analyses. Experience with statistical software and understanding
published research. Two hours lecture, two hours lab.
Prereq.: MATH 1510 or MATH 1510C or Level 45 on Math Placement Test and
greater or equal to 45 credit hours.

KSS 3710  Physiology of Exercise  4 s.h.
Acute responses and chronic adaptations of the body to physiological
demands of physical activity. Topics related to the optimization of
performance in sport and exercise include neuromuscular and
 cardiorespiratory function, energy production and utilization, and
environmental influences.
Prereq.: Exercise science major and CHEM 1515, and BIOL 1552 or BIOL 2601.

KSS 3710L  Physiology of Exercise Laboratory  1 s.h.
Experiments and basic laboratory procedures in the field of exercise
physiology.
Concurrent with: KSS 3710.
KSS 3720  Kinesiology and Applied Anatomy  4 s.h.
Muscular structure and function in relation to physical movement; analysis of fundamental movements.
Prereq.: PHYS 1501 or PHYS 1506.

KSS 3725  Mindfulness  2 s.h.
Mindfulness is a state of active, open attention on the present and the practice of being aware moment-to-moment. Students will learn techniques of mindfulness. Topics include breath awareness, sitting meditation, body scanning, walking meditation, eating meditation, yoga, loving kindness and yoga nidra.
Prereq.: PSVC 1560 or KSS 1590.

KSS 3730  Exercise Testing and Prescription 2  4 s.h.
Intermediate exercise testing, exercise prescription based on metabolic calculations and program development for special populations. Supervised field experience in exercise leadership involving 5-8 hours per week. Content based on American College of Sports Medicine objectives. KSS 3710 may be taken concurrently with KSS 3730.
Prereq.: KSS 2625, KSS 3700, KSS 3720 and KSS 3710.

KSS 3750  Principles of Coaching  2 s.h.
The scientific, psychological, and management aspects of coaching. Includes ethics and management responsibilities, personnel management, community relations, conditioning, and other related topics.
Prereq.: Junior standing.

KSS 3760  Strength Training and Conditioning  3 s.h.
Scientific principles, concepts, and adaptations to resistance exercise. Practical application of lifting and spotting technique, testing procedures, program design, and organization and administration of the strength and conditioning facility. Two hours lecture, two hours lab.
Prereq.: KSS 1560 and KSS 3710.

KSS 3765  Athletic Training 1  2 s.h.
Practical and theoretical aspects of the prevention of athletic injuries. Includes supplies, wrapping and strapping, protective equipment. Emphasizes prevention, evaluation, and emergency care. One hour lecture, two hours lab.
Prereq.: KSS 1595 and KSS 2605.

KSS 4803  Issues and Trends in Exercise Science  1 s.h.
Current issues and trends and their impact on exercise science and the general public as they relate to the American College of Sports Medicine's behavioral objectives for various professional certificates.
Prereq.: 64 s.h. or permission of instructor.

KSS 4805  Administration of Exercise Programs  3 s.h.
Provides an overview of legal, management, and marketing skills necessary to implement exercise related wellness programs. Requires development of business plan including facility design and equipment selection.
Prereq.: KSS 3700.

KSS 4810  Exercise Testing and Prescription 3  4 s.h.
Clinical exercise tests (electrocardiography, pulmonary function, submaximal/ maximal cardiorespiratory tests) and exercise prescription (cardiovascular, pulmonary, diabetes, stress, cancer, PVD and hypertension). Supervised experience in clinical exercise facilities nine hours during the semester. Content based on American College of Sports Medicine objectives. 4 s.h.
Prereq.: KSS 3730, KSS 3710, and one of STAT 2625, STAT 2625C or KSS 3705.

KSS 4855  Organization and Administration of Kinesiology and Sport Science Programs  3 s.h.
Organizational patterns and administrative methods in activities, including instructional programs, intramurals and recreation.
Prereq.: 20 s.h. in major.

KSS 4865  Athletic Training 2  2 s.h.
Advanced techniques of athletic training with emphasis on evaluation, treatment and rehabilitation of athletic injuries. Topics include application of therapeutic modalities, reconditioning programs, and the role of the athletic trainer in sports medicine. One hour lecture, two hours lab.
Prereq.: KSS 3765.

KSS 4870  Exercise and Aging for Health Professions  3 s.h.
For majors in Gerontology/Health Professions who work with older adults in exercise/physical activity programs. Emphasis on physical aspects/limitations of aging, exercise testing, prescription, and programs for the elderly. Not applicable to the major in Exercise Science.
Prereq.: Senior standing or permission of instructor.

KSS 4875  Exercise Counseling and Behavioral Strategies  4 s.h.
Exercise Counseling and Behavioral Strategies Evidence-based theories and domains geared toward fostering change, growth, and self-actualization in exercise. The scientific foundations of basic exercise counseling and behavioral strategies that enable effective wellness coaching are explored.
Prereq.: Junior standing.

KSS 4880  Internship  8 s.h.
A culminating experience in an approved fitness or sports-related setting under the direct supervision of a qualified individual and coordinated by a supervising faculty member. Requires 400 hours to obtain 8 s.h. May be taken concurrently with KSS 4875.
Prereq.: Completion of Exercise Science core requirements through KSS 4810.

KSS 4888  Selected Topics in Kinesiology and Sport Science  1-3 s.h.
In-depth study of special subject matter within the field of physical education. Topic announced each time course is offered. May be repeated for a maximum of 6 s.h. with change in topic.
Prereq.: 72 s.h. or consent of instructor.

KSS 4890  Undergraduate Research  1-3 s.h.
Research participation under the direction and guidance of a full-time faculty member. Provides the advanced student with research experience in HPES. May be repeated to a maximum of six s.h. Junior standing or permission of instructor.

KSS 4898  Seminar KSS  1 s.h.
Special and current problems in KSS.
Prereq.: 72 semester hours.

KSS 6935  Biodynamics and Human Performance  2 s.h.
The physiology of human exercise responses to various stress conditions such as environmental, psychosocial, disease, and maximal performance.
Prereq.: HEPE 4899 or equivalent.

KSS 6940  Exercise Program Administration  3 s.h.
General guidelines for managing, developing, delivering and evaluating exercise programs with specific behavioral objectives for program directors, exercise leaders, and exercise technicians as established by the American College of Sports Medicine.
Prereq.: KSS 3710 or permission of instructor.

KSS 6990  Independent Study  1-3 s.h.
Individual study and projects under faculty supervision. May be repeated to a maximum of three semester hours.
Prereq.: Permission of instructor and department chair.

Medical Laboratory Science

MLS 1501  Introduction to the Medical Laboratory Profession  2 s.h.
Overview of the medical laboratory profession, ethics, responsibilities and clinical relevance of laboratory procedures.
Prereq.: MATH 1504 or level 20 on Math Placement Test, high school chemistry or CHEM 1501, high school biology or BIOL 1505.
Concurrent with: MLS 1501L.

MLS 1501L  Introduction to the Medical Laboratory Profession Laboratory  1 s.h.
Phlebotomy, specimen collection and processing; basic medical laboratory exercises. Three hours lab per week.
Prereq.: MATH 1504 or level 20 on Math Placement Test, high school chemistry or CHEM 1501, high school biology or BIOL 1505.
Concurrent with: MLS 1501.
MLS 3700  Clinical Chemistry 2  4 s.h.
This course will explore the principles and procedures of routine clinical chemistry analysis, including correlation of test results with pathophysiology, testing criteria and variables that impact accuracy.
Prereq.: MLT 2601 or CHEM 1510/L.

MLS 3701  Clinical Hematology 1  2 s.h.
Hematopoiesis; theory and laboratory application of manual procedures in hematology including cell counts, hemoglobin, hematocrit, and differentials; introductory hemostasis and laboratory applications. Two hours of lecture per week.
Prereq.: MLS 1501, MLS 1501L, BIOL 2601 with a minimal grade of "C".

MLS 3701L Clinical Hematology 1 Laboratory  1 s.h.
Laboratory application of manual procedures in hematology including cell counts, hemoglobin, hematocrit, and differentials; introductory hemostasis and laboratory applications. Three hours of laboratory per week.
Prereq.: MLS 1501, MLS 1501L, BIOL 2601 with a minimal grade of "C".
Coreq.: MLS 3701.

MLS 3702  Clinical Hematology 2  2 s.h.
Advanced theory and laboratory procedures in hematology and hemostasis, including leukemia, anemia, hematopathology and coagulation disorders; abnormal differentials and automated methods. Two hours of lecture per week.
Prereq.: MLS 3701, MLS 3701L with a minimal grade of "C".

MLS 3702L Clinical Hematology 2 Laboratory  1 s.h.
Laboratory procedures in hematology and hemostasis, including leukemia, anemia, hematopathology and coagulation disorders; abnormal differentials and automated methods. Three hours of laboratory per week.
Prereq.: MLS 3701, MLS 3701L with a minimal grade of "C".
Coreq.: MLS 3702.

MLS 3703  Clinical Immunology  3 s.h.
Fundamentals of immunology, including both humoral and cellular immunological responses. Applications of immunological methods in medical research and patient treatment. Recommended BIOL 3702.
Prereq.: BIOL 2601.

MLS 3703L Clinical Immunology Laboratory  1 s.h.
VDRL, ASO, febrile, latex, pregnancy, and viral tests; flocculation, precipitation, complement fixation, and titration procedures for various diseases. Three hours lab per week. Identical with MLT 3703L and BIOL 3703L.
Prereq.: MLS 1501, MLS 1501L, BIOL 2602.
Concurrent with: MLS 3703.

MLS 3787  Diagnostic Microbiology  3 s.h.
Clinical applications of human pathogenic microorganisms; infections, frequency, isolation, identification, and treatment of bacteria, fungi, viruses, and parasites. Case studies, problem solving, and quality assurance in clinical microbiology. Three hours lecture per week.
Prereq.: BIOL 2602.
Concurrent with: MLS 3787L.

MLS 3787L Diagnostic Microbiology Laboratory  2 s.h.
A clinical approach to the study of bacteria, fungi, viruses, and parasites. Methods to isolate and identify clinically significant pathogens from clinical specimens; case studies in clinical microbiology. Six hours lab per week. Identical with MLT 3787L.
Prereq.: BIOL 2602.
Concurrent with: MLS 3787.

MLS 4800  Advanced Clinical Chemistry  4 s.h.
Didactics and critical analysis of clinical chemistry. Four hours of lecture. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4800L Advanced Clinical Chemistry Clinical Experience  2 s.h.
Clinical experience and critical analysis of clinical chemistry; Competency based clinical practice. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4801  Advanced Hematology  4 s.h.
Didactics and clinical analysis of clinical hematology. Four hours of lecture. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4801L Advanced Hematology Clinical Practice  3 s.h.
Clinical practice of clinical hematology. Competency based clinical practice. Grading is Traditional PR.
Prereq.: Acceptance into a clinical internship.

MLS 4802  Advanced Immunohematology  4 s.h.
Didactics and critical analysis of blood banking, Immunohematology, and Transfusion Medicine. Four hours of lecture. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4802L Advanced Immunohematology Clinical Practice  3 s.h.
Clinical practice and critical analysis of blood banking, Immunohematology, and Transfusion Medicine. Competency based clinical practice. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4803  Advanced Microbiology  5 s.h.
Didactics and critical analysis of bacteriology, mycology, virology and Parasitology. Five hours of lecture. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4803L Advanced Microbiology Clinical Practice  3 s.h.
Clinical practice and critical analysis of bacteriology, mycology, virology, and parasitology. Competency based clinical practice. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4804  Miscellaneous Clinical Experience  4 s.h.
Didactic and clinical analysis of specimen collection and processing. Management, education, molecular diagnostics, hemostasis, clinical immunology, and urinalysis and body fluids. Four hours of lecture. Capstone course requiring laboratory research project. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

MLS 4804L Miscellaneous Clinical Practice  2 s.h.
Clinical practice and critical analysis of specimen collection and processing. Management, education, molecular diagnostics, hemostasis, clinical immunology, and urinalysis and body fluids. Competency based clinical practice. Capstone course requiring laboratory research project. Grading is Traditional or PR.
Prereq.: Acceptance into a clinical internship.

Medical Laboratory Technology

MLT 1501  Introduction to the Medical Laboratory Profession  2 s.h.
Overview of the medical laboratory profession, ethics, responsibilities and clinical relevance of laboratory procedures.
Prereq.: MATH 1504 or level 20 on Math Placement Test, high school chemistry or CHEM 1501, high school biology or BIOL 1505.
Concurrent with: MLT 1501L.

MLT 1501L Introduction to the Medical Laboratory Profession Laboratory  1 s.h.
Phlebotomy, specimen collection and processing; basic medical laboratory exercises. Three hours lab per week.
Prereq.: MATH 1504 or level 20 on Math Placement Test, high school chemistry or CHEM 1501, high school biology or BIOL 1505.
Concurrent with: MLT 1501.

MLT 1502  Urinalysis and Body Fluids  2 s.h.
Theory and techniques in the analysis of urine and body fluids.
Prereq.: MLT 1501, MLT 1501L, BIOL 2601.
Concurrent with: MLT 1502L.

MLT 1502L Urinalysis and Body Fluids Laboratory  1 s.h.
Chemical and microscopic analysis of urine. Three hours lab per week.
Prereq.: MLT 1501, MLT 1501L, BIOL 2601.
Concurrent with: MLT 1502.
MLT 1503  Immunohematology  3 s.h.
Fundamental theories and techniques of immunohematology and blood banking; genetic theories, problem solving, and case studies.
Prereq.: BIOL 2601 and MLT 1501.
Concurrent with: MLT 1503L and BIOL 2602.

MLT 1503L  Immunohematology Laboratory  1 s.h.
ABO and RH typing, direct and indirect antiglobulin testing, compatibility testing. Three hours lab per week.
Prereq.: MLT 1501, MLT 1501L, BIOL 2601.
Concurrent with: MLT 1503.

MLT 2601  Clinical Chemistry  1 s.h.
Medical laboratory applications of clinical chemistry.
Prereq.: MLT 1501, MLT 1501L, CHEM 1515.
Concurrent with: MLT 2601L.

MLT 2601L  Clinical Chemistry 1 Laboratory  1 s.h.
Spectrophotometric, semi-automated, and automated analysis of glucose, electrolytes, enzymes, and other chemical constituents of serum. Three hours lab per week.
Prereq.: MLT 1501, MLT 1501L, CHEM 1515.
Concurrent with: MLT 2601L.

MLT 2603  Immunohematology Laboratory 2  1 s.h.
Clinical Laboratory theory and application of Immunohematology procedures. Three hours laboratory per week.
Prereq.: MLT 1502/L and MLT 1503/L with a minimal grade of "C".

MLT 2605  Molecular Diagnostics  2 s.h.
This course focuses on the newest medical laboratory discipline known as molecular diagnostics. The content will include principles of molecular biology (nucleic acid) tools and their application to aid in identification, diagnosis, and prognosis of conditions and disease states. Cross-Listed: MLS 2605.
Prereq.: BIOL 2601/L.

MLT 2687L  Microbiology for Health Care Laboratory  1 s.h.
Medical microbiology laboratory for health care professionals. Laboratory methods in the transmission, identification, prevention, and treatment of common bacterial, viral, fungal, and parasitic pathogens with a focus on nosocomial infections. Three hours lab per week.
Prereq.: BIOL 1545, BIOL 1551, BIOL 2601, or permission of instructor.
Concurrent with: BIOL 1560.

MLT 3700  Clinical Chemistry 2  4 s.h.
This course will explore the principles and procedures of routine clinical chemistry analysis, including correlation of test results with pathophysiology, testing criteria and variables that impact accuracy. Cross-Listed: MLS 3700.
Prereq.: MLT 2601 or CHEM 1510/L.

MLT 3701  Clinical Hematology 1  2 s.h.
Hematopoiesis; theory and laboratory application of manual procedures in hematology including cell counts, hemoglobin, hematocrit, and differentials; introductory hemostasis and laboratory applications. Two hours of lecture per week.
Prereq.: MLT 1501, MLT 1501L, BIOL 2601 with a minimal grade of "C".

MLT 3701L  Clinical Hematology 1 Laboratory  1 s.h.
Laboratory application of manual procedures in hematology including cell counts, hemoglobin, hematocrit, and differentials; introductory hemostasis and laboratory applications. Three hours of laboratory per week.
Prereq.: MLT 1501, MLT 1501L, BIOL 2601 with a minimal grade of "C".
Coreq.: MLT 3701.

MLT 3702  Clinical Hematology 2  2 s.h.
Advanced theory and laboratory procedures in hematology and hemostasis, including leukemia, anemia, hematopathology and coagulation disorders; abnormal differentials and automated methods. Two hours of lecture week.
Prereq.: MLT 3701, MLT 3701L with a minimal grade of "C".

MLT 3702L  Clinical Hematology 2 Laboratory  1 s.h.
Laboratory procedures in hematology and hemostasis, including leukemia, anemia, hematopathology and coagulation disorders; abnormal differentials and automated methods. Three hours of laboratory per week.
Prereq.: MLT 3701, MLT 3701L with a minimal grade of "C".
Coreq.: MLT 3702.

MLT 3703L  Clinical Immunology Laboratory  1 s.h.
VDRL, ASO, febrile, latex, pregnancy, and viral tests; flocculation, precipitation, complement fixation, and titration procedures for various diseases. Three hours lab per week. Identical with MLS 3703L and BIOL 3703L.
Prereq.: MLS 1501, MLS 1501L, BIOL 2602.
Concurrent with: MLS 3703.

MLT 3704  Clinical Immunology and Serology  3 s.h.
A study of the diagnostic applications of immunology and methods of serological testing. The immunology and diagnosis of infectious disease, autoimmunity, immunodeficiency, and immunoproliferative disease will be discussed. Cross-Listed: MLS 3704.
Coreq.: MLT 3704L.

MLT 3704L  Clinical Immunology/Serology Laboratory  1 s.h.
The immunology and diagnosis of infectious disease, autoimmunity, immunodeficiency, and immunoproliferative disease will be discussed. 2 hours of lab per week. Cross-Listed: MLS 3704L.
Coreq.: MLT 3704.

MLT 3706  Medical Laboratory Seminar  3 s.h.
Internship evaluation, special topics in the clinical laboratory. Case studies and interpretation of laboratory results.
Prereq.: Acceptance into 3716 or instructor permission.
Coreq.: MLT 3716.

MLT 3716  Clinical Internship  6 s.h.
Students will be placed at laboratory clinical sites for 40 hours per week for 7 weeks. Must be taken concurrently with MLT 3706 & MLT 3717. Permission of instructor.
Coreq.: MLT 3706 and MLT 3717.

MLT 3717  Clinical Microbiology Interpretation  1 s.h.
A study of the diagnostic procedures and interpretation of microbiological cultures relevant to the clinical laboratory.
Prereq.: Instructor Permission.
Coreq.: 3716 and 3706.

MLT 3787  Diagnostic Microbiology  3 s.h.
Clinical applications of human pathogenic microorganisms; infections, frequency, isolation, identification, and treatment of bacteria, fungi, viruses, and parasites. Case studies, problem solving, and quality assurance in clinical microbiology. Three hours lecture per week.
Prereq.: BIOL 2602.
Concurrent with: MLT 3787L.

MLT 3787L  Diagnostic Microbiology Laboratory  2 s.h.
A clinical approach to the study of bacteria, fungi, viruses, and parasites. Methods to isolate and identify clinically significant pathogens from clinical specimens; case studies in clinical microbiology. Six hours lab per week. Identical with BIOL 3787L, MLS 3787L. 2 s.h.
Prereq.: BIOL 2602.
Concurrent with: MLT 3787.
Public Health

PHLT 1500  Introduction to Online Learning in Health Professions  3 s.h.
Prepare students to take online courses including the use of the Blackboard learning environment and orient students to YSU and YSU's Health Professions programs. Help students acquire basic skills to be successful in online learning and emphasize skills and resources necessary to be successful in their personal, academic and career-related pursuits. In addition, this course will introduce students to topics such as career assessment and how to become a successful health professional in the 21st Century. Should be taken during a student's first 30 hours at YSU. Listed also as AHLT 1500 and RESC 1500.
Prereq.: PHLT, AHLT or RESC major.

PHLT 1513  Introduction to Environmental Health and Safety  3 s.h.
Provides and introduction to and overview of the key areas of environmental health, one of the core areas of public health. Using the perspectives of the population and community, the course will cover factors associated with the development of environmental health problems.
Gen Ed: Environmental Sustainability, Social and Personal Awareness.

PHLT 1531  Fundamentals of Public Health  3 s.h.
Provides an introduction to public health concepts and practice by examining the philosophy, purpose, history, organization, functions, tools, activities, and results of public health at the national, state, and community levels. Introduces the core disciplines of public health, and current events and issues in the field.

PHLT 1568  Healthy Lifestyles  3 s.h.
Personal and consumer health issues and prevention of premature death analyzed from physical, emotional, social and spiritual perspectives. Plans for disease prevention and healthful living. Importance of health promotion to the individual, region, nation and world.

PHLT 2607  Ethical Issues in Public Health  3 s.h.
Examines practical aspects of ethics and public health. This course will help students develop the analytical skills necessary for evaluating ethical issues related to public health policy and public health prevention, treatment, and research.
Prereq.: PHLT 1531 or PHLT 1568.

PHLT 2692  Human Sexuality  3 s.h.
An interdisciplinary approach to the study of human sexuality.
Prereq.: PHLT 1568.
Cross listed with PSYC 2692.

PHLT 3702  Health Education Theory and Methods  3 s.h.
Overview of health education theory, history, ethics, and methods for the community, school, workplace and health care setting. Provides a foundation in teaching methods. Also listed as HEPE 3702.
Prereq.: PHLT 1568.

PHLT 3709  Elements of Urban Environmental Health Practices  3 s.h.
Focus on development and implementation issues of environmental and public health programs necessary for urban and rural communities to meet acceptable public health standards at the local health department level with emphasis on resources and staffing. AHLT 3708, or permission of instructor. Also listed as AHLT 3709.

PHLT 3715  Health Education for Grades PreK-6  3 s.h.
Comprehensive School Health Education curricula, methods and materials for teaching pre-kindergarten through sixth grade students. Also listed as HEPE 3715.
Prereq.: PHLT 1568, PHLT 3702 and BIOL 1545 or AHLT 1500 and AHLT 1501.

PHLT 3716  Health Education for Grades 7-12  3 s.h.
Comprehensive School Health Education curricula, methods and materials for teaching seventh through twelfth grade students.
Prereq.: PHLT 1568, PHLT 3702 and BIOL 1545 or AHLT 1500 and AHLT 1501.

PHLT 3725  Topics in Public Health  3 s.h.
Examines topics of relevance to public health. Specific topics include current issues and emerging research findings, with a focus on health behavior and health promotion, epidemiology, public health administration, environmental health, biostatistics, through analysis of public health problems, and application of principles and practices of public health.
Prereq.: PHLT 1531.

PHLT 3731  Drug Use and Abuse  3 s.h.
Alcohol, tobacco, and other drug use and their relationship to behavior and society. Emphasis on prevention, early intervention, and treatment in the behavioral medicine, health care, educational and criminal justice systems.
Prereq.: PHLT 1568.

PHLT 3757  Health and Disease  4 s.h.
Study of the major chronic and communicable diseases affecting humans. Emphasis on etiology, prevention through health education and health promotion methods, and materials.
Prereq.: PHLT 1568, BIOL 1545 or AHLT 1500 and AHLT 1501.

PHLT 3791  Community Health  3 s.h.
Study of the need for organized community health efforts: problems of chronic and communicable diseases, environmental health, world health, and the public and private agencies involved in their solutions.
Prereq.: PHLT 1568.

PHLT 4801  Field Work in Health Education  1-3 s.h.
Provides the public health major with a supervised teaching or agency experience. Three to twelve hours per week.
Prereq.: PHLT 3701L and PHLT 3791.

PHLT 4826  Community Health Planning and Promotion  4 s.h.
Fundamental techniques for assessing needs, planning, marketing and implementing health promotion programs in the workplace and community.
Prereq.: PHLT 3791 and AHLT 5807.

PHLT 4827  Evaluation of Health Promotion Programs  3 s.h.
Theories and methods of program evaluation for assessing the quality of health promotion programs.
Prereq.: PHLT 4826.

PHLT 4828  Grant Writing  3 s.h.
Methods and techniques for writing grant proposals related to health. Emphasis on competence in development of narrative, program plan, evaluation design, time line, identifying grant sources and managing funded projects.
Prereq.: PHLT 4826 and PHLT 4827.

PHLT 4891  Public Health Internship  8 s.h.
Supervised experience designed to provide an opportunity to enable students to apply entry-level competencies acquired in the classroom setting to public health practice through experiential activities. The student will be required to be at the internship approximately 23-24 hours per week in a 15 week semester, for a total of 350 hours.
Prereq.: senior standing and consent of instructor.

PHLT 4892  Environmental Health and Safety Internship  8 s.h.
Supervised experience designed to provide an opportunity to enable students to apply entry-level competencies acquired in the classroom setting to environmental health practice through experiential activities. The student will be required to be at the internship approximately 23-24 hours per week in a 15 week semester, for a total of 350 hours.
Prereq.: senior standing and consent of instructor.

PHLT 4898  Environmental Health and Safety Senior Seminar  3 s.h.
Synthesis of professional course work. Development of resume and professional portfolio; preparation for internship; administration of outcome assessment instruments for public health majors.
Prereq.: senior standing and consent of instructor.
PHLT 4899  Public Health Senior Seminar  3 s.h.
Synthesis of professional course work. Development of resume and professional portfolio; preparation for internship; administration of outcome assessment instruments for public health majors; preparation for the CHES certification exam.
Prereq.: Senior standing and consent of instructor.
Gen Ed: Capstone.

PHLT 5804  Multicultural Health  3 s.h.
Explore multicultural models of health, illness, and treatments or therapies to increase understanding of various approaches to prevention, health promotion, healing, and maintenance of health and well-being.
Prereq.: PHLT 1568 or PHLT 1531 and junior standing.

PHLT 5810  Agents of Mass Casualty  3 s.h.
Explorations of biological agents, chemical agents or radiological and nuclear devices, terrorism, security, emergency planning, and community and public health roles in the event of a deployment of these agents. Increase understanding through case analysis of how to apply course concepts to real world scenarios.
Prereq.: PHLT 1531 or PHLT 1568 and junior standing.

PHLT 5812  Crisis Management in Public Health  3 s.h.
Exploration of roles, thought processes and actions of public health professionals during crisis situations, by understanding the anatomy of crises. Increase knowledge through case analysis of how to apply course concepts to real world scenarios.
Prereq.: PHLT 1531 or PHLT 1568 and junior standing.

PHLT 5893  Workshop in Health Education  1-3 s.h.
Concentrated study of a selected topic related to health education. The department will select and announce the topic and determine the credit hours based on the frequency and duration of workshop meetings. May be repeated for a maximum of 6 s.h. with change in topic.
Prereq.: PHLT 3701, PHLT 3791 or permission of instructor.

**Respiratory Care**

RESC 1500  Introduction to Online Learning in Health Professions  3 s.h.
Prepare students to take online courses including the use of the Blackboard learning environment and orient students to YSU and YSU's Health Professions programs. Help students acquire basic skills to be successful in online learning and emphasize skills and resources necessary to be successful in their personal, academic and career-related pursuits. In addition, this course will introduce students to topics such as career assessment and how to become a successful health professional in the 21st Century. Should be taken during a student's first 30 hours at YSU. Listed also as PHLT 1500 and AHLT 1500.
Prereq.: PHLT, AHLT or RESC major.

RESC 1503  Respiratory Procedures 1  3 s.h.
Appropriate use of selected respiratory care procedures. Three hours lecture to be taken concurrently with 1503L.

RESC 1503L  Respiratory Procedures 1 Lab  1 s.h.
Appropriate use of selected respiratory care procedures. Three hours lab to be taken concurrently with 1503L.

RESC 1520  Respiratory Care Assessment 1  2 s.h.
Diagnostic techniques used in evaluating patients with cardiopulmonary disorders. Two hour lecture to be taken concurrently with RESC 1520L.
Prereq.: RESC 1531.

RESC 1520L  Respiratory Assessment 1 Lab  1 s.h.
Diagnostic techniques used in evaluating patients with cardiopulmonary disorders. Two hour lab. Must be taken concurrently with RESC 1520.

RESC 1529  Respiratory Care Orientation  2 s.h.
Scope of profession including key organizations, role within health-care system and career options. Includes applied anatomy and physiology of respiratory system and basic assessment and therapeutic procedures. Hospital experiences included. One hour lecture and two hours lab.

RESC 1530  Foundations of Respiratory Care  3 s.h.
Review of the professional scope of practice for a respiratory therapist including key organizational roles within the profession. Basic application of scientific gas laws and theories will be examined along with basic description and function of oxygen delivery equipment related to respiratory care. Includes applied anatomy and physiology of the respiratory system and basic patient assessment. 3 hour lecture.
Prereq.: Acceptance into the respiratory care program or by a special permission from the program director.

RESC 1531  Respiratory Care Essentials  2 s.h.
Application of basic scientific principles to the respiratory-care profession. Includes coverage of basic equipment, assessment techniques, and therapeutic procedures. Two hours lecture.
Coreq.: RESC 1531L.

RESC 1531L  Respiratory Care Essentials Lab  1 s.h.
Application of basic scientific principles to the respiratory-care profession. Includes coverage of basic equipment, assessment techniques, and therapeutic procedures. Two hours lab.
Coreq.: RESC 1531.

RESC 2620  Respiratory Assessment 2  2 s.h.
Advanced techniques in the assessment of cardiopulmonary disorders. Two hours lecture to be taken concurrently with 2620L.

RESC 2620L  Respiratory Assessment 2 Lab  1 s.h.
Advanced techniques in the assessment of cardiopulmonary disorders. Two hours lab to be taken concurrently with RESC 2620.

RESC 2621  Cardiopulmonary Disease  3 s.h.
Comprehensive overview of cardiopulmonary disorders encountered by respiratory therapists. Includes applications to clinical protocols and evidence based practices.
Prereq.: RESC 2620.

RESC 2699  Clinical Practice 1  1 s.h.
Orientation to hospital and department policies, including exposure to and practice with basic respiratory care procedures. Five hours a week in clinics.
Prereq.: RESC 2621.

RESC 3706  Respiratory Procedures 2  2 s.h.
Airway management techniques and other critical care procedures. Two hours lecture.
Prereq.: acceptance into the respiratory care program.
Coreq.: RESC 3706L.

RESC 3706L  Respiratory Procedures 2 Lab  1 s.h.
Airway management techniques and other critical care procedures. Three hours lab.
Prereq.: Acceptance into the respiratory therapy program.
Coreq.: RESC 3706.

RESC 3708  Respiratory Clinical Specialties  3 s.h.
Fundamentals of hemo-dynamic monitoring, management of burn patients, and assessment of neuro-trauma. Three hours lecture.
Prereq.: RESC 3706.

RESC 3708L  Respiratory Clinical Specialties Lab  1 s.h.
Fundamentals of hemodynamic monitoring, management of burn patients, and assessment of neuro trauma. Three hours lab to be taken concurrently with RESC 3708.
Prereq.: Acceptance into the respiratory care program and completion of RESC 3706.

RESC 3709  Neonatal/Pediatric Respiratory Care  3 s.h.
Respiratory care applications in neonatal/pediatric settings. Three hours lecture.
Prereq.: Acceptance into the Respiratory Care Program.
Coreq.: RESC 3709L.

RESC 3709L  Neonatal/Pediatric Respiratory Care Lab  1 s.h.
Respiratory care applications in neonatal/pediatric settings. Three hours lab to be taken concurrently with RESC 3709.
Prereq.: Acceptance into the Respiratory Care program.
RESC 3710  Respiratory Care Pharmacology  3 s.h.
This course will review the therapeutic effects, side effects, indications and contraindications along with dosages, drug delivery routes as well as standard and modified delivery absorption methods of pulmonary related pharmacological agents and medications for aspects of pulmonary related medicine.
Prereq.: CHEM 1510/L.

RESC 3720  Mechanical Ventilation  1  2 s.h.
Basic theory and application of mechanical ventilation in critical care areas.
Two hours lecture.
Prereq.: Acceptance into the respiratory care program.

RESC 3720L  Mechanical Ventilation 1 Lab  1 s.h.
Basic theory and application of mechanical ventilation in critical care areas.
Three hours lab to be taken concurrently with RESC 3720.
Prereq.: Acceptance into the Respiratory Care Program.

RESC 3725  Mechanical Ventilation 2  2 s.h.
Advanced theory and application of mechanical ventilation. Includes home care ventilators. Two hours lecture to be taken concurrently with RESC 3720L.
Prereq.: RESC 3720.

RESC 3725L  Mechanical Ventilation 2 Lab  1 s.h.
Advanced theory and application of mechanical ventilation. Includes home care ventilators. Three hours lab to be taken concurrently with RESC 3725.
Prereq. RESC 3720.

RESC 3731  Respiratory Care Management  3 s.h.
A study of the basic managerial process, organizational concepts, budgeting, quantitative planning, decision-making, and issues of control as they relate to the manager of a hospital-based respiratory care department.
Prereq.: RESC 3725.

RESC 3740  Clinical Practice 2  3 s.h.
Application of basic and advanced respiratory care modalities in the clinical hospital setting.
Prereq.: RESC 2699.

RESC 3740L  Clinical Practice 2 Lab  2 s.h.
Application of basic and advanced respiratory care modalities. Three hour lab to be taken concurrently with RESC 3740.
Prereq.: RESC 2699.

RESC 3741  Clinical Practice 3  3 s.h.
Application of basic and advanced respiratory care modalities for pediatric and adult patients. Twenty hours a week.
Prereq.: RESC 3740.

RESC 3750  Pulmonary Rehabilitation  2 s.h.
Demonstration of the multidisciplinary nature of a pulmonary rehabilitation program. The role of the respiratory care practitioner in preventive care activities.
Prereq.: RESC 3706.

RESC 3765  Advanced Respiratory Care Diagnostics  3 s.h.
The study of the fundamentals of advanced respiratory care diagnostics. Three hour lecture.
Prereq.: RESC 3708 or permission of instructor.

RESC 4801  Special Topics in Respiratory Care  1-3 s.h.
Focused research of a special problem/issue related to respiratory care. The topic of interest allows the student to participate in focused investigation of aspects of administration, clinical specialization, or research. May be repeated up to a total of 3 s h.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of instructor.

RESC 4810  Advanced Neonatal and Pediatric Case Management  3 s.h.
This course is designed to strengthen the student’s knowledge of Neonatal/Pediatric disorders by incorporating evidence-based practices into case management. Current protocols will also be discussed.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of instructor.

RESC 4831  Pulmonary Case Management  3 s.h.
Pathology as it relates to care of patients with pulmonary-related disorders.
Prereq.: RESC 3725.

RESC 4835  Clinical Practice 4  3 s.h.
Application of advanced respiratory modalities and diagnostics for pediatric and adult patients. Capstone course for RC program. Fifteen hours a week.
Prereq.: RESC 3741.

RESC 4838  Respiratory Seminar 1  1 s.h.
Review of current aspects of clinical respiratory care. A content analysis of the updated NBRC Entry-Level exam will be included.
Prereq.: RESC 3741.

RESC 4842  Respiratory Seminar 2  1 s.h.
Review of current aspects of clinical respiratory care. A content analysis of the updated NBRC Advanced Practitioner exam will be included.
Prereq.: RESC 4838.

RESC 4846  Advanced Management of the Ventilator Patient  3 s.h.
Course will present current classifications, evidence-based research and application of mechanical ventilator concepts in critical care areas. Technical capabilities of modes will be described along with optimal settings. Current protocols in RC will also be discussed.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of instructor.

RESC 4862  Professional Pathways for Respiratory Care Practitioners  3 s.h.
This course will explore select professional pathways available to the RCP. The foundations and role of the RCP are examined in four key areas: the sleep center, home care, PFT lab and HBO centers. The RCP will be introduced to the standards of care and practical application for each area.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of instructor.

RESC 4867  Fundamentals of Leader Development  3 s.h.
This course will form the necessary core of self-awareness in relation to leader development. Through introducing concepts and examples of leadership and awareness of how one leads as an expression of self, RCPs will enhance leadership awareness and personal expression within their discipline.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of the instructor.

RESC 4870  Advanced Cardiopulmonary Case Management  3 s.h.
This course is designed to strengthen the student’s knowledge of C-P disorders by incorporating evidence-based practices into C-P case management. The student will learn to apply these strategies in acute care, transitional, and long-term care settings. Current protocols will also be discussed.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of instructor.

RESC 4872  Technology Applications for RCPs  3 s.h.
Exploration of technology applications for education, presentations, communications and management. Creation of digital media such as audio and/or video files, e-portfolios and web-based application of various technologies will be required. Application of technology to education or management will be evaluated through completion of a technology-enhanced project.
Prereq.: acceptance in BSRC completion program, junior standing, or permission of instructor.
RESC 5820 The Respiratory Care Profession 3 s.h.
Study of origins, current role, and future directions of respiratory care profession within the framework of the current health care environment. Examination of professional resources is also included. 
Prereq.: Active membership in American Association for Respiratory Care and acceptance in MRC program.

RESC 5860 Technology Applications for Health and Human Services 3 s.h.
Exploration of technology applications for education, presentations, communications and management in Health and Human Service disciplines. Creation of digital media such as audio and/or video files, spreadsheet macros, e-portfolios and Web-based applications of various technologies will be required. Application of technology to education, supervision or management will be evaluated through completion of a technology-enhanced project. 
Prereq. or. 
Prereq.: Acceptance in MRC program. 
Coreq.: permission from program director if outside of the respiratory care program.

RESC 5880 Advanced Management of the Ventilator Patient 3 s.h.
Course will present current classifications, evidence-based research and application of mechanical ventilator concepts in critical care areas. Technical capabilities of modes will be described along with optimal settings. Current protocols in RC will also be discussed. 
Prereq.: Acceptance in BSRC, BSRC degree advancement/completion program or Master of respiratory care program, junior standing, or permission of program director.

Associate of Applied Science in Emergency Medical Services
Program Director: Susan Kearns 330-941-1426 sekearns@ysu.edu

Emergency medical services programs are designed to educate persons to provide emergency prehospital care to people experiencing health crises. The goals of these programs are on three different levels:

- emergency medical technician
- paramedic certification
- Associate of Applied Science degree

The emergency medical technician course follows the Department of Transportation's national emergency medical services education standards, meeting all the knowledge requirements for entry-level emergency medical technician certification. To be eligible for the National Registry of Emergency Medical Technicians' certifying examination at the EMT level, the student must:

- Receive a grade of C or greater in:
  
<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>EMS 1500</td>
<td>Emergency Medical Technician</td>
<td>4</td>
</tr>
<tr>
<td>EMS 1500L</td>
<td>Emergency Medical Technician Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EMS 1500C</td>
<td>Emergency Medical Technician Clinical and Field Internship</td>
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</tbody>
</table>

- Successfully complete the field internship objectives

The Emergency Medical Technician Paramedic Certificate can be attained after successfully completing four semesters of study. The course of study provides the student with knowledge about the recognition, assessment, and practice of emergency medical care in the pre-hospital setting on an advanced life-support unit. It meets and exceeds all U.S. Department of Transportation national emergency medical services education standards. The Youngstown State University emergency medical services program is accredited by:

The Commission on Accreditation of Allied Health Education Programs http://www.caahep.org
25400 U.S. Highway 19 North, Suite 158
Graduates in the paramedic program will:

- Demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their role as a paramedic (cognitive).
- Demonstrate technical proficiency in all skills necessary to fulfill the role as a paramedic (psychomotor).
- Demonstrate personal behavior consistent with professional and employer expectations for the paramedic (affective).

## Learning Outcomes

### Associate of Applied Science in Medical Laboratory Technician

**Medical Laboratory Programs**

Laboratory analysis plays an important role in the detection, diagnosis, and treatment of many diseases. Laboratory professionals perform a myriad of such tests to aid the physician in the management of disease.

For more information regarding program policies, procedures, and essential functions or to obtain a copy of the Medical Laboratory program handbook, please contact Joan O’Connell-Spalla at (330) 941-1761 or joconnellspalla@ysu.edu.

**Medical Laboratory Technician (MLT-AAS) Curriculum**

The medical laboratory technician program is a two-year program leading to the Associate of Applied Science degree. The curriculum focuses on the knowledge and basic skills necessary to understand and master the procedures performed in the medical laboratory. Included are the principles, methods, calculations, and interpretation of laboratory procedures, computer technology, and communication and interpersonal skills. Technical instruction includes procedures in hematology, microbiology, immunohematology, clinical chemistry, and body fluids. This program requires five semesters of study including one summer semester.

Medical laboratory technicians (MLT) work in a supportive role in a hospital laboratory, private laboratory, clinic, public health facility, or pharmaceutical laboratory. The MLT performs laboratory tests under the supervision or direction of pathologists and other physicians, and clinical laboratory scientists. Physicians and other health care professionals use these tests to determine the presence and extent of disease, the etiologic implications about the cause of disease, and to monitor the treatment of the disease.

The MLT collects samples from patients and develops data on the blood, tissues and body fluids by using a variety of precise methodologies and technologies. Medical laboratory technicians use modern instruments, with the ability to discriminate between similar items and correct errors using preset strategies. The MLT has knowledge of specific techniques and instrumentation and is able to recognize factors that affect laboratory procedures. The MLT also monitors quality assurance procedures.

The MLT program is accredited through the National Accrediting Agency for Clinical Laboratory Sciences and meets the standards developed by the American Society of Clinical Pathologists (ASCP).

The National Accrediting Agency for Clinical Laboratory Sciences

5600 N. River Rd., Suite 720
Rosemont, IL 60018-5119
phone (773) 714-8886
http://www.naacls.org

Over the past three program years, the MLT program has a 92% graduation rate and a 100% placement rate. An average of 100% of graduates who took the ASCP-MLT certification examination passed within one year of completing the program.

Graduates are eligible to take the certification examinations for MLT/CLT offered through ASCP and become certified as an MLT (ASCP).

Students must have a minimal Math Placement of Level 3 or its equivalent to be considered for the MLT program. Students in Pre-MLT are not considered to be enrolled in the MLT program. Students must first complete the following courses with a minimal grade of C:

### Spring

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<thead>
<tr>
<th>Course</th>
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<th>Semester Hours</th>
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<tr>
<td>EMS 1507</td>
<td>Cardiovascular Emergencies</td>
<td>3</td>
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<tr>
<td>EMS 1508</td>
<td>Cardiovascular Techniques Lab</td>
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<tr>
<td>EMS 1512</td>
<td>Medical Conditions and Management Techniques</td>
<td>3</td>
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<tr>
<td>EMS 1513</td>
<td>Emergency Medical Techniques 2 Lab</td>
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<tr>
<td>EMS 1514</td>
<td>Emergency Medical Services Operations</td>
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<td>EMS 1515</td>
<td>Clinical Experience 2</td>
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<td>EMS 1516</td>
<td>Prehospital Field Experience 1</td>
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<td>PSYC 1560</td>
<td>General Psychology</td>
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<tr>
<td>EMS 1508</td>
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<td>EMS 2604</td>
<td>Prehospital Field Experience 2</td>
<td>1</td>
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<tr>
<td>EMS 2605</td>
<td>Pulmonary Emergencies</td>
<td>3</td>
</tr>
<tr>
<td>EMS 2606</td>
<td>EMS Special Certifications</td>
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</tr>
<tr>
<td>EMS 2607</td>
<td>EMS Special Certifications Lab</td>
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<tr>
<td>EMS 2609</td>
<td>EMS Prehospital Field Internship</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1505</td>
<td>Allied Health Chemistry 1 and</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 1505L</td>
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Completion of Paramedic Certificate - 46 s.h.

(ENGL 1550, SOC 1500, CHEM 1505, and CHEM 1505L are not required for the certificate)

### Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
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<tr>
<td>EMS 2613</td>
<td>Critical Care Paramedic</td>
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<td>EMS 2614</td>
<td>Critical Care Paramedic Laboratory</td>
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<td>EMS 2631</td>
<td>Advanced Clinical and Field Internship Experience</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>MATH 2623</td>
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### Semester Hours

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<tr>
<td></td>
<td><strong>Year 2</strong></td>
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<tr>
<td></td>
<td><strong>Summer</strong></td>
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<tr>
<td>EMS 2600</td>
<td>Emergency Medical Services Special Populations</td>
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<tr>
<td>EMS 2601</td>
<td>Emergency Medical Techniques 3 Lab</td>
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<td>EMS 2603</td>
<td>Clinical Experience 3</td>
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<td>EMS 2604</td>
<td>Prehospital Field Experience 2</td>
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<td>EMS 2605</td>
<td>Pulmonary Emergencies</td>
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<tr>
<td>EMS 2609</td>
<td>EMS Prehospital Field Internship</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1505</td>
<td>Allied Health Chemistry 1 and</td>
<td>3</td>
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<tr>
<td>&amp; 1505L</td>
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Completion of Paramedic Certificate - 46 s.h.

(ENGL 1550, SOC 1500, CHEM 1505, and CHEM 1505L are not required for the certificate)

### Total Semester Hours

<p>| | | |</p>
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<thead>
<tr>
<th></th>
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<tr>
<td></td>
<td><strong>Spring</strong></td>
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<td><strong>Summer</strong></td>
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<td></td>
<td><strong>Fall</strong></td>
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<tr>
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<td><strong>Semester Hours</strong></td>
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</tr>
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</table>

Applicants must have a State of Ohio EMT certification (completion of EMS 1500, EMS 1500L, and EMS 1500C or equivalent). A grade of C or greater is required for all EMS, PSYC, and MATC courses.
Associate of Applied Science in Medical Laboratory Technician

Program admission is based on the applicant’s overall GPA and performance in Chemistry, MLT, and Biology courses. All MLT, BIOL, & CHEM courses must be completed with a minimum grade of a “C”. Students must maintain an overall program GPA of at least 2.75. Students receiving a total of 6 hours or more grades of “D”/ “F” in MLT, BIOL, or CHEM will be dismissed from the program. All developmental courses such as the following do not count toward degree requirements.

- MLT 1501: Introduction to the Medical Laboratory Profession
- MLT 1501L: Introduction to the Medical Laboratory Profession Laboratory
- BIOL 2601: General Biology: Molecules and Cells
- BIOL 2601L: General Biology: Molecules and Cells Laboratory

There will be no course substitutions for MLT, BIOL, or CHEM courses. Students are permitted a total of two course repetitions for recalculation of GPA. Readmission to the program is based on GPA and availability of class space. Students must maintain a minimum of 2.75 GPA for placement into clinical practicum. Courses must be taken in proper sequence; students may invalidate clinical placement when failing to do so. Students are required to complete a physical exam, background check, and immunizations as program requirements.

Medical laboratory technicians are expected to function with a maximum degree of effectiveness in professional attitude, patient relations, and integrity. The capacity for competent performance at all levels must be assured before the student will be assigned to a clinical internship. The student must be competent in the didactic (knowledge), psychomotor (laboratory skills), and affective realm (attitude and responsibility) prior to clinical placement.

### Courses and Titles

**Course** | **Title**                                                                 | **S.H.**
---|---|---
MLT 1501 | Introduction to the Medical Laboratory Profession | 2
MLT 1501L | Introduction to the Medical Laboratory Profession Laboratory | 1
BIOL 2601 | General Biology: Molecules and Cells | 4
BIOL 2601L | General Biology: Molecules and Cells Laboratory | 0

**Total Semester Hours** | **7**

**Course** | **Title**                                                                 | **S.H.**
---|---|---
ENGL 1539 | Fundamentals of College Writing | 4
ENGL 1540 | Introduction to College Writing | 3
RSS 1510A | Advanced College Success Skills | 3
RSS 1510B | Basic College Success Skills | 3
MATH 1501 | | 3
MATH 1505 | Intermediate Algebra with Applications | 5
MATH 1507 | Intermediate Algebra | 3

The first year requirement - student success courses include:

- YSU 1500: Success Seminar (1-2 S.H.)
- SS 1500 or HONR 1500: Strong Start Success Seminar
- ENGL 1550 or ENGL 1549: Writing 1 (1 S.H.)
- MATH 1501: Writing 2
- STAT 2625: Statistical Literacy and Critical Reasoning
- BIOL 2601 & 2601L: General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory
- BIOL 2602 & 2602L: General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory
- CHEM 1510: Chemistry for the Allied Health Sciences
- CHEM 1510L: Chemistry for the Allied Health Sciences Laboratory
- MLT 1501: Introduction to the Medical Laboratory Profession
- MLT 1501L: Introduction to the Medical Laboratory Profession Laboratory
- MLT 1502: Urinalysis and Body Fluids
- MLT 1502L: Urinalysis and Body Fluids Laboratory
- MLT 1503: Immunohematology
- MLT 1503L: Immunohematology Laboratory
- MLT 2601: Clinical Chemistry 1
- MLT 2601L: Clinical Chemistry 1 Laboratory
- MLT 2603: Immunohematology Laboratory 2
- MLT 2605: Molecular Diagnostics
- MLT/MLS 3700: Clinical Chemistry 2
- MLT 3701: Clinical Hematology 1
- MLT 3701L: Clinical Hematology 1 Laboratory
- MLT 3702: Clinical Chemistry 2
- MLT 3702L: Clinical Hematology 2 Laboratory
- MLT 3704: Clinical Immunology and Serology
- MLT 3704L: Clinical Immunology and Serology Laboratory
- MLT 3706: Medical Laboratory Seminar
- MLT 3716: Clinical Internship
- MLT 3717: Clinical Microbiology Interpretation
- MLT 3787: Diagnostic Microbiology
- MLT 3787L: Diagnostic Microbiology Laboratory

**Total Semester Hours** | **75-77**

**Year 1**

**Fall** | **S.H.**
---|---
YSU 1500 | Success Seminar | 1
MLT 1501 | Introduction to the Medical Laboratory Profession | 2
MLT 1501L | Introduction to the Medical Laboratory Profession Laboratory | 1
BIOL 2601 & 2601L | General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory | 4
CHEM 1510 | Chemistry for the Allied Health Sciences | 4
CHEM 1510L | Chemistry for the Allied Health Sciences Laboratory | 0
ENGL 1550 | Writing 1 | 3

**Semester Hours** | **18**

**Spring**

- MLT 1502: Urinalysis and Body Fluids | 2
- MLT 1502L: Urinalysis and Body Fluids Laboratory | 1
- MLT 1503: Immunohematology | 3
- MLT 1503L: Immunohematology Laboratory | 1
- MLT 2601: Clinical Chemistry 1 | 2
- MLT 2601L: Clinical Chemistry 1 Laboratory | 1
- BIOL 2602: General Biology: Organisms and Ecology | 4
- BIOL 2602L: General Biology: Organisms and Ecology Laboratory | 0
- ENGL 1551 | Writing 2 | 3

**Semester Hours** | **17**
Learning Outcomes

- Graduates will be prepared to function as entry-level health care professionals in the medical laboratory as medical laboratory technicians and medical laboratory scientists. At entry level, the medical laboratory graduate will be able to demonstrate the ability to comprehend, apply and evaluate information relative to the medical laboratory profession.
- These learning outcomes include comprehension of the theory and the ability to apply and evaluate the didactics of hematology, clinical chemistry, immunohematology, microbiology, immunology, coagulation, molecular diagnostics, and other emerging diagnostics.
- Graduates will be prepared to function as entry-level health care professionals in the medical laboratory as medical laboratory technicians and medical laboratory scientists. Upon completion of the program, graduates will demonstrate technical proficiency in laboratory applications.
- These psychomotor learning outcomes include the performance of laboratory procedures in hematology, clinical chemistry, immunohematology, microbiology, immunology, coagulation, molecular diagnostics, and other emerging diagnostics. The graduate will demonstrate proficiency in the functions of all phases of laboratory analysis (pre-analytical, analytical, and post-analytical processes).
- Graduates will demonstrate professional conduct and interpersonal communication skills consistent with the medical laboratory profession.
- Students will exhibit the ability to think critically across all 3700-level courses through the application of fundamental didactic and psychomotor skills to assess the medical relevance and significance of specific aspects of laboratory testing.

Bachelor of Science in Applied Science in Allied Health Completion Program

Program Director
Dr. Sylvia Stefan
(330) 941-7157
sastefan@ysu.edu

Overview
Graduates with an associate degree in dental hygiene, emergency medical services, respiratory care, medical assisting technology, medical laboratory technology, or in any medical/health related discipline (for example, radiological technology, physical therapy assistant, or dietetics) will be admitted to the BSAS in allied health program as juniors.

Graduates of non-accredited or diploma-based programs will be admitted provisionally and placed at a level determined by an evaluation of their program academic transcripts.

COURSE TITLE S.H.

FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements
ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
Mathematics Requirement
MATH 2623 Quantitative Reasoning 3-4
or STAT 2625 Statistical Literacy and Critical Reasoning
Arts and Humanities (6 s.h.) 6
Natural Sciences (2 courses, 1 with lab) (7 s.h.) 7
Social Science (6 s.h.) 6
Social and Personal Awareness (6 s.h.) 6

Major Requirements
AHLT 1500 Introduction to Online Learning in Health Professions 3
AHLT 3704 Quantitative Methods in Health Sciences 3
AHLT 3708 Preventive Public Health Care 3
AHLT 3711 Health Care Information Systems 3
AHLT 4806 Research Methods 3
AHLT 4810 Management Skills for Health Professionals 3
AHLT 4820 Directed Research 3
AHLT 5807 Epidemiology 3
AHLT 5840 Comparative Health Systems 3

Allied Health Electives
Select 6 s.h. from the following:
AHLT 3705 Pharmacotherapeutics 6
AHLT 3707 Clinical Informatics for the Healthcare Provider
AHLT 3709 Elements of Urban Environmental Health Practices
AHLT 3740 Pathology of Infectious Diseases
AHLT 3755 Principles of Occupational Health and Safety
AHLT 4801 Special Topics
AHLT 4804 Stress and the Health Care Professional
AHLT 4805 Health Education for Allied Health
AHLT 4808 Environmental Health Concerns
AHLT 5831 Industrial Hygiene
AHLT 5816 Environmental Regulations

Select 39 s.h. of 3700 or higher upper division courses.

Minor (Optional) and Electives to reach 120 hours 46

Total Semester Hours 120-124

Pre-admission counseling is required for students seeking entry to the BSAS in Allied Health. For greater detail on program content or admissions, students should contact the Department of Health Professions.

Learning Outcomes
The student learning outcomes for the major in allied health are as follows:

• Students will conduct a quantitative, qualitative, or mixed method research project involving data collection and analysis.
• Students will utilize current technologies such as computer and online systems/services to access and communicate information.
• Students will be able to analyze health care-related issues.
• Students will demonstrate effective written and verbal communication skills.

Bachelor of Science in Applied Science in Food and Nutrition Didactic Program in Dietetics

Dr. Zara Rowlands, Program Coordinator
(330) 941-2021
zcshah@ysu.edu

This baccalaureate program is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND). The Didactic Program in Dietetics at YSU is currently accredited, 07/01/2010 - 06/30/2020.

Academy of Nutrition and Dietetics
120 South Riverside Plaza
Suite 2190, Chicago, IL 60606-6995
www.eatright.org

Toll Free Phone: 800-877-1600
Additional Phone: 312-899-0040

Students may select the Didactic Program in Dietetics as a major only after they have met admission criteria. These criteria include grades of "C" or better in the following courses and a minimum cumulative GPA of 2.5:

<table>
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<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3</td>
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<tr>
<td>BIOL 1551 &amp; 1551L</td>
<td>Anatomy and Physiology 1 and Anatomy and Physiology 1 Laboratory</td>
<td>4</td>
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<tr>
<td>BIOL 1552 &amp; 1552L</td>
<td>Anatomy and Physiology 2 and Anatomy and Physiology 2 Laboratory</td>
<td>4</td>
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<tr>
<td>CHEM 1510</td>
<td>Chemistry for the Allied Health Sciences</td>
<td>4</td>
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<tr>
<td>CHEM 1510L</td>
<td>Chemistry for the Allied Health Sciences Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>FNUT 2600</td>
<td>Orientation to Dietetics Major</td>
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</table>

Students who have not yet been admitted to the DPD program but are working toward that end may enroll as "Pre-dietetics-DPD" majors.

Upon satisfactory completion of the DPD, students are issued a verification statement confirming eligibility to apply for an ACEND accredited Dietetic Internship (DI) or other pre-professional practice program such as an Individualized Supervised Practice Program (ISPP).

Completion of the DI, or an approved pre-professional practice program, establishes eligibility for the Commission on Dietetic Registration (CDR) credentialing examination for dietitians. Successful completion of the examination results in nationally recognized credential as a Registered Dietitian (RD).

Didactic program in dietetics (DPD) graduates may also take the registration examination for dietetic technicians and become Dietetic Technicians, Registered (DTR).

For more information, contact Dr. Zara Rowlands at zcshah@ysu.edu or call (330) 941-2021.

<table>
<thead>
<tr>
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<th>TITLE</th>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
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<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>CHEM 1510 &amp; 1510L</td>
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<tr>
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<td>Anatomy and Physiology 1 and Anatomy and Physiology 1 Laboratory hours counted in major</td>
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<td>Social Science (6 s.h.)</td>
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<tr>
<td>PSYC 1560</td>
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<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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<tr>
<td>One additional SPA course (3700 level)</td>
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<th>COURSE</th>
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<td>Anatomy and Physiology 2 and Anatomy and Physiology 2 Laboratory</td>
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<td>FNUT 1512</td>
<td>Food Safety and Sanitation</td>
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<td>Food Science and Management Principles and Food Science and Management Principles Laboratory Lecture is 3 sh lab is 1 sh</td>
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<tr>
<td>FNUT 2603 &amp; 2603L</td>
<td>Medical Nutrition Therapy 1 and Medical Nutrition Therapy 1 Laboratory Lecture is 3 sh lab is 1 sh</td>
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### Year 1

#### Fall

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<tr>
<td>YSU 1500</td>
<td>Success Seminar or Intro to Honors</td>
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<tr>
<td>or HONR 1500</td>
<td>Success Seminar or Intro to Honors</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td>1-2</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1 (FS,X) or Writing 1 with Support</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 (FS,X) or Writing 1 with Support</td>
<td>3-4</td>
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<tr>
<td>BIOL 1551</td>
<td>Anatomy and Physiology 1</td>
<td>3</td>
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<tr>
<td>BIOL 1551L</td>
<td>Anatomy and Physiology 1 Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition (FS,X)</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 2600</td>
<td>Orientation to Dietetics Major</td>
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#### Semester Hours

|  | 12-14 |

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### Year 2

#### Fall

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<td>ACCT 1503</td>
<td>Elementary Accounting (F)</td>
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<td>or HMGT 2603</td>
<td>or Hospitality Managerial Accounting 1</td>
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<tr>
<td>COUN 2651</td>
<td>Foundations of Helping Skills for Human Ecology Professionals (F)</td>
<td>2</td>
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<tr>
<td>FNUT 1553</td>
<td>Food Science and Management Principles (FS)</td>
<td>3</td>
</tr>
<tr>
<td>FNUT 1553L</td>
<td>Food Science and Management Principles Laboratory (FS)</td>
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<tr>
<td>FNUT 2652L</td>
<td>Nutrition Assessment Laboratory (FS)</td>
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<tr>
<td>BIOL 1560</td>
<td>Microbiology for the Health Professions</td>
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<td>&amp; 1560L</td>
<td>Microbiology Laboratory for Health Professions</td>
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<td>MATC 1501</td>
<td>Medical Terminology</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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#### Semester Hours

|  | 16 |

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### Year 3

#### Fall

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<td>CHFM 3731</td>
<td>Individual and Family Development (FS,X)</td>
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<tr>
<td>FNUT 3759</td>
<td>Advanced Nutrition (F)</td>
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<td>FNUT 3760</td>
<td>Medical Nutrition Therapy 2 (F)</td>
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<tr>
<td>FNUT 3761</td>
<td>Science of Nutrition in Exercise</td>
<td>3</td>
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<tr>
<td>FNUT 4802</td>
<td>Research Methods in Dietetics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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#### Semester Hours

|  | 17 |

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### Year 4

#### Fall

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<tr>
<td>FNUT 4858</td>
<td>Food Service Systems Management (F)</td>
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### Additional Accreditation Required Courses

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ACCT 1503</td>
<td>Elementary Accounting (F)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1560</td>
<td>Microbiology for the Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 1560L</td>
<td>Microbiology Laboratory for Health Professions</td>
<td>1</td>
</tr>
<tr>
<td>COUN 2651</td>
<td>Foundations of Helping Skills for Human Ecology Professionals (F)</td>
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#### Electives to meet 120 hours

|  | 1 |

### Year 1

#### Fall

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<td>or SS 1500</td>
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<td>Anatomy and Physiology 1 Laboratory</td>
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<td>Normal Nutrition (FS,X)</td>
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#### Semester Hours

|  | 12-14 |

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### Year 2

#### Fall

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<td>or HMGT 2603</td>
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<td>Foundations of Helping Skills for Human Ecology Professionals (F)</td>
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<td>FNUT 1553</td>
<td>Food Science and Management Principles (FS)</td>
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<td>Food Science and Management Principles Laboratory (FS)</td>
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<td>FNUT 2652L</td>
<td>Nutrition Assessment Laboratory (FS)</td>
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<td>BIOL 1560</td>
<td>Microbiology for the Health Professions</td>
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<td>Microbiology Laboratory for Health Professions</td>
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<td>Medical Terminology</td>
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<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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#### Semester Hours

|  | 16 |

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### Year 3

#### Fall

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<td>FNUT 3760</td>
<td>Medical Nutrition Therapy 2 (F)</td>
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<td>FNUT 3761</td>
<td>Science of Nutrition in Exercise</td>
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<td>FNUT 4802</td>
<td>Research Methods in Dietetics Laboratory</td>
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<tr>
<td>SOC 1500</td>
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#### Semester Hours

|  | 17 |

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### Year 4

#### Fall

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<tr>
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### Total Semester Hours

120-122
The Pre MPH-DFM (BSAS Food and Nutrition-Graduate track) is an upper-division generalist dietetics program with an emphasis in community wellness. The program prepares students for professional practice and leads to eligibility for graduates to sit for the examination to become Registered Dietitian Nutritionists (RDN) and Licensed Dietitians in the state of Ohio. During the four-semester program, each student accrues supervised practice hours covering medical nutrition therapy, community nutrition and wellness, maternal and child, foodservice, and aging in addition to public health preparation.

A community wellness emphasis has been identified as a need in the regional area that Youngstown State University serves. Graduates of the Master’s in Public Health/Dietetics Future Model Track will be positioned to assume major roles in community health programs. The program is currently accredited through the Accreditation Council for Education in Nutrition and Dietetics (ACEND) within the Academy of Nutrition and Dietetics (AND).

Accreditation Council for Education in Nutrition and Dietetics (http://www.eatright.org/ACEND/)

---

Bachelor of Science in Applied Science in Food and Nutrition-Graduate Track

Dr. Jeanine Mincher
(330) 941-3346
jm cher@ysu.edu

The Pre MPH-DFM (BSAS Food and Nutrition-Graduate track) is an upper-division generalist dietetics program with an emphasis in community wellness. The program prepares students for professional practice and leads to eligibility for graduates to sit for the examination to become Registered Dietitian Nutritionists (RDN) and Licensed Dietitians in the state of Ohio. During the four-semester program, each student accrues supervised practice hours covering medical nutrition therapy, community nutrition and wellness, maternal and child, foodservice, and aging in addition to public health preparation.

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Accreditation Council for Education in Nutrition and Dietetics (http://www.eatright.org/ACEND/)
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<td>FNUT 2603L</td>
<td>Medical Nutrition Therapy 1 Lab</td>
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<td>Food Systems: Operation, Production, and Service</td>
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<td>Food Systems: Operations, Production, and Service</td>
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<td>Nutrition Assessment Laboratory</td>
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<td>Nutritional Biochemistry</td>
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<td>KSS 1500</td>
<td>Physical Activity Core Concepts</td>
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<td>Medical Nutrition Therapy 2 Laboratory</td>
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<td>Nutrition and Aging</td>
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<td>Community Nutrition and Wellness Experience</td>
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Total Semester Hours: 128-130

**Year 1**

**Fall**

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**Semester Hours**: 15-17

**Spring**

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<td>STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
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<td>PSYC 1560</td>
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**Year 2**

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<td>Food Safety and Sanitation</td>
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<td>Anatomy and Physiology 2 Laboratory</td>
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**Spring**

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<td>Food Systems: Operation, Production, and Service</td>
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**Semester Hours**: 14

**Year 3**

**Fall**

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**Spring**

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<td>Food and Cultures Laboratory</td>
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<td>FNUT 4874</td>
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**Semester Hours**: 17

**Year 4**

**Fall**

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<td>Experimental Foods Laboratory</td>
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<td>Food Systems Management Laboratory (F)</td>
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<td>Medical Nutrition Therapy 2</td>
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**ART AND HUMANITIES ELECTIVE**: 3

**Semester Hours**: 17
Bachelor of Science in Applied Science in Public Health, Environmental Health Track

Program Director
Dr. Nicolette Powe
(330) 941-1895
nwpowe@ysu.edu

Overview
Public Health
The public health program offers the Bachelor of Science in Applied Science (BSAS) degree and can be completed in eight semesters if students average 16 hours per semester. The program has two tracks:

- Health Education/Health Promotion
- Environmental Health and Safety

The program offers a minor in public health and community health planning and evaluation. The program offers minors in:

- Public health
- Community Health Planning and Evaluation
- Environmental Health and Safety

The program contributes to the University's general education requirements by offering PHLT 1500 Introduction to Online Learning in Health Professions, PHLT 1513 Introduction to Environmental Health and Safety, PHLT 1531 Fundamentals of Public Health, and PHLT 1568 Healthy Lifestyles, which meet the general education requirements for First Year Experience, Social and Personal Awareness, Social Sciences/Social and Personal Awareness and Social and Personal Awareness, respectively. To be admitted to the public health program, a student must have a minimum GPA of 2.0. To continue enrollment in the major, students must maintain a 2.0 GPA. If a student falls below a 2.0 GPA, he or she can only reapply to the major after a minimum GPA of 2.0 has been achieved.

There are five standard areas in public health training that enable students to perform the essential services of public health. These are:

- epidemiology
- biostatistics
- health services administration
- environmental health
- behavioral science/health education

The curriculum for the YSU bachelor’s degree in public health addresses each of the five core areas through multiple courses. This curriculum enables mastery at the bachelor’s level of the nationally recognized Public Health Core Competencies, and requires an internship tailored to the area of public health interests of each student. All of the major courses for the degree can be completed through online distance learning options.

The BSAS in public health can also prepare the student to become a Certified Health Education Specialist (CHES) or be eligible to take the sanitarian examination. CHES assesses:

- individual and community health needs
- the ability to plan and implement effective health education and health promotion programs
- the ability to coordinate and manage the provision of health education and promotion services
- ability to effectively communicate health and health education needs, concerns, and resources
- the ability to conduct program evaluation

The environmental health and safety track prepares students to be sanitarians/sanitarians-in-training. Sanitarians promote public health by conducting environmental health inspections and related activities for settings such as food service establishments (restaurants), children's camps, hotels, long-term and adult care facilities, and diagnostic and treatment centers.

Public health professionals work in multiple settings:

- public
- non-profit
- academic
- private
- governmental

For more information visit the Public Health Program (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/online-public-health-major/).

During the freshman and sophomore years, students are expected to take the courses that meet the requirements for general education. In addition to the English, mathematics, and communication requirement, specific general education courses for the BSAS public health degree include:

<table>
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<tr>
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<tr>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

| ENGL 1550 | Writing 1                       | 3-4  |

Semester Hours 128-130

F – Offered in the fall semester S – Offered in the spring semester X – Offered in the summer semester

Learning Outcomes
At the completion of the Pre-MPH-RDN program, graduates will be able to:

- Effectively integrate biochemical concepts into dietetics practice.
- Effectively integrate physiological concepts into dietetics practice.
- Effectively apply theory from the social sciences to dietetics practice.
- Effectively present results of research study.
- Effectively apply concepts from food, nutrition, management, and health care systems to dietetics practice.
- Practice effectively as members of an interdisciplinary team.
- Demonstrate competency in medical nutrition therapy.
- Demonstrate competency in foodservice management practice.
- Demonstrate competency in community nutrition practice.

Spring

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<tr>
<th>COURSE</th>
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<tr>
<td>FNU 4874L  3</td>
<td>Community Nutrition and Wellness Experience</td>
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<td>or HONR 1500</td>
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<tr>
<td>FNU 4873  2</td>
<td>Nutrition and Aging</td>
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<td>FNU 4860  3</td>
<td>Medical Nutrition Therapy</td>
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<td>HAHS 5875  3</td>
<td>Interprofessional Education for Health Professions (Must take for Graduate Credit)</td>
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Total Semester Hours 128-130

The environmental health and safety track prepares students to be sanitarians/sanitarians-in-training. Sanitarians promote public health by conducting environmental health inspections and related activities for settings such as food service establishments (restaurants), children's camps, hotels, long-term and adult care facilities, and diagnostic and treatment centers.
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
MATH 2623 Quantitative Reasoning 3
PHLT 1560 Introduction to Philosophy (fulfills major requirement) 3
or PHIL 2625 Introduction to Professional Ethics 3
One additional Arts and Humanities course 3
BIOL 2601 General Biology: Molecules and Cells (required for major) 4
BIOL 2601L General Biology: Molecules and Cells Laboratory (required for major) 0
One additional Natural Sciences course 3
GEOL 1500 Environmental Geology 3
SOC 1500 Introduction to Sociology (required for major) 3
PHLT 1568 Healthy Lifestyles (required for major) 3
PHLT 1531 Fundamentals of Public Health (required for major) 3
PHLT 1500 Introduction to Online Learning in Health Professions 3
**Major Requirements**
PHLT 1513 Introduction to Environmental Health and Safety 3
BIOL 1545 Allied Health Anatomy and Physiology 5
& 1545L Allied Health Anatomy and Physiology Laboratory 3
**Core Requirements**
PHLT 2607 Ethical Issues in Public Health 3
PHLT 3702 Health Education Theory and Methods 3
PHLT 3709 Elements of Urban Environmental Health Practices 3
PHLT 3725 Topics in Public Health 3
PHLT 3757 Health and Disease 4
PHLT 3791 Community Health 3
PHLT 4826 Community Health Planning and Promotion 4
PHLT 4827 Evaluation of Health Promotion Programs 3
PHLT 4828 Grant Writing 3
PHLT 4892 Environmental Health and Safety Internship 8
PHLT 4898 Environmental Health and Safety Senior Seminar 3
PHLT 5804 Multicultural Health 3
PHLT 5810 Agents of Mass Casualty 3
PHLT 5812 Crisis Management in Public Health 3
AHLT 3708 Preventive Public Health Care 3
AHLT 3740 Pathology of Infectious Diseases 3
AHLT 3755 Principles of Occupational Health and Safety 3
AHLT 4806 Research Methods 3
AHLT 4808 Environmental Health Concerns 3
AHLT 4810 Management Skills for Health Professionals 3
AHLT 4820 Directed Research 3
AHLT 5816 Environmental Regulations 3
AHLT 5807 Epidemiology 3
AHLT 5831 Industrial Hygiene 3
**Total Semester Hours** 128-130

A total of 122 semester hours are required for the BSAS in public health. No minor is required for this professional BSAS degree.

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500 Success Seminar</td>
<td>1</td>
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<tr>
<td>PHLT 1531 Fundamentals of Public Health</td>
<td>3</td>
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<tr>
<td>PHLT 1568 Healthy Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 1513 Introduction to Environmental Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550 Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1549 Writing 1 with Support</td>
<td>4</td>
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<tr>
<td>PHLT 1500 Introduction to Online Learning in Health Professions</td>
<td>3</td>
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</tbody>
</table>

**Spring**

| MATH 2623 Quantitative Reasoning | 3 |
| PHLT 3791 Community Health | 3 |
| AHLT 3708 Preventive Public Health Care | 3 |
| ENGL 1551 Writing 2 | 3 |
| BIOL 1545 Allied Health Anatomy and Physiology | 5 |
| and Allied Health Anatomy and Physiology Laboratory | 0 |

**Year 2**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>CMST 1545 Communication Foundations</td>
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**Spring**

| PHLT 3725 Topics in Public Health | 3 |
| PHLT 3757 Health and Disease | 4 |
| AHLT 4808 Environmental Health Concerns | 3 |
| PHLT 5812 Crisis Management in Public Health | 3 |
| PHLT 1560 Introduction to Philosophy | 3 |
| or PHIL 2625 Introduction to Professional Ethics | 3 |

**Year 3**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>PHLT 4826 Community Health Planning and Promotion</td>
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<tr>
<td>AHLT 5831 Industrial Hygiene</td>
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<td>AHLT 4806 Research Methods</td>
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</tr>
<tr>
<td>PHLT 2607 Ethical Issues in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500 Introduction to Sociology</td>
<td>3</td>
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</tbody>
</table>

**Spring**

| PHLT 4827 Evaluation of Health Promotion Programs | 3 |
| PHLT 4828 Grant Writing | 3 |
| AHLT 3740 Pathology of Infectious Diseases | 3 |
| Arts and Humanities | 3 |
| PHLT 5804 Multicultural Health | 3 |

**Year 4**

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>AHLT 5816 Environmental Regulations</td>
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</tr>
<tr>
<td>AHLT 3755 Principles of Occupational Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 4810 Management Skills for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 5810 Agents of Mass Casualty</td>
<td>3</td>
</tr>
</tbody>
</table>
The program has two tracks: the Bachelor of Science in Applied Science (BSAS) degree and can be completed in eight semesters if students average 16 hours per semester. The program contributes to the University’s general education requirements by offering PHLT 1500 Introduction to Online Learning in Health Professions, PHLT 1513 Introduction to Environmental Health and Safety, PHLT 1531 Fundamentals of Public Health, and PHLT 1568 Healthy Lifestyles, which meet the general education requirements for First Year Experience, Social and Personal Awareness, Social Sciences/Social and Personal Awareness and Social and Personal Awareness, respectively. To be admitted to the public health program, a student must have a minimum GPA of 2.0. To continue enrollment in the major, students must maintain a 2.0 GPA. If a student falls below a 2.0 GPA, he or she can only reapply to the major after a minimum GPA of 2.0 has been achieved.

There are five standard areas in public health training that enable students to perform the essential services of public health. These are:

- epidemiology
- biostatistics
- health services administration
- environmental health
- behavioral science/health education

The curriculum for the YSU bachelor’s degree in public health addresses each of the five core areas through multiple courses. This curriculum enables mastery at the bachelor’s level of the nationally recognized Public Health Core Competencies, and requires an internship tailored to the area of public health interests of each student. All of the major courses for the degree can be completed through online distance learning options.

The BSAS in public health can also prepare the student to become a Certified Health Education Specialist (CHES). CHES assess:

- individual and community health needs
- the ability to plan and implement effective health education and health promotion programs
- the ability to coordinate and manage the provision of health education and promotion services
- the ability to effectively communicate health and health education needs, concerns, and resources
- the ability to conduct program evaluation

Public health professionals work in multiple settings: public health agencies, non-profit organizations, academic, private, and other health care settings.

For more information, visit the Public Health Program (http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-health-professions/public-health-education-health-protection-track/).

During the freshman and sophomore years, students are expected to take the courses that meet the requirements for general education. In addition to the English, mathematics, and communication requirement, specific general education courses for the BSAS public health degree include:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

<table>
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<tr>
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<th>TITLE</th>
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<tbody>
<tr>
<td>PHLT 1500</td>
<td>Introduction to Online Learning in Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
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</table>
No minor is required for this professional BSAS degree.

A total of 121-123 semester hours are required for the BSAS in public health. No minor is required for this professional BSAS degree.

### Year 1

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>YSU 1500 or HONR 1500 or SS 1500 or Intro to Honors or Strong Start Success Seminar</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>PHLT 1531</td>
<td>Fundamentals of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 1568</td>
<td>Healthy Lifestyles (fulfills major requirement)</td>
<td>3</td>
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<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 or Writing 1 with Support</td>
<td>3-4</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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### Year 2

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>PHLT 2692</td>
<td>Human Sexuality</td>
<td>3</td>
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<tr>
<td>PHLT 3702</td>
<td>Health Education Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 3709</td>
<td>Elements of Urban Environmental Health Practices</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 4891</td>
<td>Public Health Internship</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 4899</td>
<td>Public Health Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 5804</td>
<td>Multicultural Health</td>
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<tr>
<td>PHLT 5810</td>
<td>Agents of Mass Casualty</td>
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<tr>
<td>PHLT 5812</td>
<td>Crisis Management in Public Health</td>
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<tr>
<td>Allied Health Courses</td>
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<tr>
<td>PHLT 3708</td>
<td>Preventive Public Health Care (Allied Health Courses)</td>
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<td>PHLT 3740</td>
<td>Pathology of Infectious Diseases</td>
<td>3</td>
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<td>PHLT 4806</td>
<td>Research Methods</td>
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<tr>
<td>PHLT 4808</td>
<td>Environmental Health Concerns</td>
<td>3</td>
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<td>PHLT 4810</td>
<td>Management Skills for Health Professionals</td>
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<tr>
<td>PHLT 5807</td>
<td>Epidemiology</td>
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Total Semester Hours: 121-123

### Year 3

#### Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>PHLT 3757</td>
<td>Health and Disease</td>
<td>4</td>
</tr>
<tr>
<td>PHLT 3791</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 5812</td>
<td>Crisis Management in Public Health</td>
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<td>AHLT 5807</td>
<td>Epidemiology</td>
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<tr>
<td>FNU 1551</td>
<td>Normal Nutrition</td>
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Total Semester Hours: 15

### Year 4

#### Fall

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<th>Course</th>
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<tbody>
<tr>
<td>PHLT 3731</td>
<td>Drug Use and Abuse</td>
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<tr>
<td>PHLT 4826</td>
<td>Community Health Planning and Promotion</td>
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</tr>
<tr>
<td>AHLT 4806</td>
<td>Research Methods</td>
<td>3</td>
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<td>Natural Science (1 course)</td>
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</tr>
<tr>
<td>Arts and Humanities (1 course)</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLT 3757</td>
<td>Health and Disease</td>
<td>4</td>
</tr>
<tr>
<td>PHLT 3791</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 5812</td>
<td>Crisis Management in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 5807</td>
<td>Epidemiology</td>
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</tr>
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<td>FNU 1551</td>
<td>Normal Nutrition</td>
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Total Semester Hours: 16

### Year 5

#### Fall

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<th>Course</th>
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<th>Semester Hours</th>
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<tr>
<td>PHLT 5810</td>
<td>Agents of Mass Casualty</td>
<td>3</td>
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<tr>
<td>PHLT 2607</td>
<td>Ethical Issues in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 4810</td>
<td>Management Skills for Health Professionals</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (1 course)</td>
<td></td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLT 4899</td>
<td>Public Health Senior Seminar</td>
<td>3</td>
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</tbody>
</table>

Total Semester Hours: 12
The Bachelor of Science in Dental Hygiene degree requires nine semesters of study including three semesters of coursework in the basic sciences and general education, which precede admission into the program. In the spring semester of the second year, students will begin taking the dental hygiene courses. The program is designed to prepare students as clinical dental hygienists and to pursue other possible career options such as education, public health, and research. Prospective students complete educational requirements that provide a broad academic background while attaining comprehensive dental hygiene knowledge and clinical experience.

At the end of the fourth year of the program, students are eligible to take state, regional and national board examinations. Upon successful completion of these comprehensive written and clinical examinations, the student may apply for a license to practice dental hygiene in the state as a registered dental hygienist.

Bachelor of Science in Dental Hygiene

Program Director
Jennifer A. Pieren
(330) 941-3327
ejapieren@ysu.edu

Overview
(330) 941-3342

The registered dental hygienist is a licensed professional who provides dental hygiene treatment and related preventive services. Clinical skills of the hygienist include:

- the administration of local anesthesia and nitrous oxide
- recording medical and dental histories
- exposing and interpreting radiographs
- making study models
- performing extra-oral and intra-oral examinations which include cancer screenings; dietary management; preliminary dental charting and periodontal evaluations
- scaling and root planing
- polishing
- patient education
- placing sealants
- administering fluoride therapy

Many states permit the hygienist to perform additional duties such as placing temporary restorative materials.

The dental hygienist also functions as a dental health educator and is responsible for the preventive dental health program in private dental practices as well as in other settings. The hygienist teaches patients proper oral health care in order to reduce oral diseases and disorders.

The hygienist's role in service to the community may include increasing public awareness of dental health, serving as a resource person to school systems, providing screenings to children or various groups, and making visits to nursing homes, hospitals and/or schools for the mentally or physically handicapped.

Accreditation

The dental hygiene program is accredited by the American Dental Association Commission on Dental Accreditation. The Commission is a specialized accrediting body recognized by the United States Department of Education.

The Commission on Dental Accreditation
211 East Chicago Avenue
Chicago, IL 60611
(312) 440-2500

Admission to the Program

Admission to the University provides students with the opportunity to complete a core of pre-dental hygiene courses. All students must complete and/or be registered for all of the pre-dental hygiene courses (the first year fall semester, the first year spring semester, and the second year fall semester) after which they may apply and compete for a position in the Bachelor of Science in Dental Hygiene program. Please note that due to limited clinical capacity and available resources, admission to the university and completion of the pre-dental hygiene courses does not guarantee admission to the program. The courses in BOLD on the Admission Policy document will be used in the calculation of the student's pre-dental hygiene GPA which will be used in ranking students.

Admitted students who voluntarily withdraw from the Dental Hygiene Program will be allowed to reapply only one additional time. This is enforced in fairness to other applicants.

A criminal background check which includes fingerprinting for the Ohio Bureau of Criminal Identification and Investigation (BCI & I) and the Federal Bureau of Investigation (FBI) is required for licensure in Ohio. If a student has been convicted of a felony or misdemeanor related to substance abuse or a crime involving moral turpitude, licensure may be denied by the Ohio State Dental Hygiene Board.
Board. For further information regarding licensure and the results of finger printing call the Ohio State Dental Board at (614) 466-2580.

Students can access Transferology (https://www.transferology.com/), a free web-based source where they can find accurate information regarding courses that transfer and apply to a degree program.

Prospective students must complete a minimum of 12 hours of observation of a registered dental hygienist in two separate dental offices or clinics. Observation forms are available on the Dental Hygiene website. Each prospective student must print the form, fill it out and return it by September 15 of the year of application. Mail with appropriate signatures to:

Youngstown State University
Dental Hygiene Program
One University Plaza
Youngstown, OH 44555.

New, Current, Former, and Transfer Students

Students must apply and compete for conditional acceptance into the dental hygiene program by September 15 for spring semester admittance. Rankings of admission will include a minimum GPA of 2.70, in the bolded courses (see Admissions Policy) and a cumulative grade point average of 2.5 or greater. ALL pre-dental hygiene courses must be completed with a “C” or better at the end of the fall semester of the second year (as outlined below).

For more information, visit the Department of Dental Hygiene (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/dental-hygiene-major/).

Pre-Dental Hygiene Courses

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<th>Semester Hours</th>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>HAHS 1500</td>
<td>Strong Start FYE</td>
</tr>
<tr>
<td>BIOL 1545 &amp; 1545L</td>
<td>Allied Health Anatomy and Physiology and Allied Health Anatomy and Physiology Laboratory</td>
</tr>
<tr>
<td>CHEM 1505 &amp; 1505L</td>
<td>Allied Health Chemistry 1 and</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td>Spring</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
</tr>
<tr>
<td>CHEM 1506 &amp; 1506L</td>
<td>Allied Health Chemistry 2 and</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
</tr>
<tr>
<td>MATH 2623 or STAT 2625</td>
<td>Quantitative Reasoning or Statistical Literacy and Critical Reasoning</td>
</tr>
<tr>
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<td>Semester Hours</td>
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</table>

<table>
<thead>
<tr>
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<tr>
<td>BIOL 1560</td>
<td>Microbiology for the Health Professions</td>
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<tr>
<td>MLT 2687L or BIOL 1560L</td>
<td>Microbiology for Health Care Laboratory or Microbiology Laboratory for Health Professions</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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<tr>
<td>Arts and Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Hours</td>
</tr>
</tbody>
</table>

Current Students

Current students must apply by September 15 for spring semester admittance. Application packets are in the Dean’s office, Bitonte College of Health and Human Services, Cushwa Hall, Room 2104. All necessary reports and transcripts must be received by September 15. No applications will be considered after this deadline.

New, Transfer, and Former YSU Students

New, transfer, and former YSU students must first apply and be admitted to the University by completing the undergraduate admissions form and indicating dental hygiene as the intended major.

Submit transcripts from each of the post secondary institutions and high school(s) attended. Transcripts of any academic work being completed during the academic year of the requested admission must be submitted by YSU Admissions Office by September 15. No applications will be considered after this deadline.

Observation Requirement

All prospective students must complete a minimum of 12 hours of observation of a registered dental hygienist in at least two separate dental offices or dental clinics. Students must dress appropriately. Do not wear shorts, jeans, tennis shoes, flip-flops or other unprofessional clothing. Hair must be pulled away from the face, and make-up and perfume should be moderately applied. Observation forms are available on the dental hygiene (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/dental-hygiene-major/) website. Each prospective student must print the form and fill it out. The forms with the appropriate signatures must be mailed to:

Youngstown State University
Dental Hygiene Program
One University Plaza
Youngstown, OH 44555

Factors affecting admission will include:

1. Pre-Dental Hygiene G.P.A.
2. Cumulative G.P.A.
3. All Pre-Dental Hygiene courses completed with a "C" or better by the end of the fall semester.
4. Number of repetitions of BOLD pre-dental hygiene courses (as indicated in Section A).
5. As the number of repetitions increases, the likelihood of being admitted decreases. Applicants will have within the last five years, no more than two repeated classes in all the pre-dental hygiene courses. A repeated course must be completed with a grade of "C" or better and all incompletes must be removed before beginning the dental hygiene curriculum.
6. Satisfactory completion of the dental hygiene observation forms.

Upon receiving admission to the Dental Hygiene Program, and as a condition of admission, students must show satisfactory evidence of the following:

1. Current CPR/BLS certification
2. Completed physical and dental exam
3. Proof of required immunization requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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</table>
Bachelor of Science in Dental Hygiene

Major Requirements

DHYG 2601 Dental Hygiene 1 3
DHYG 2601L Clinical Dental Hygiene 1 2
DHYG 2620 Head and Neck Anatomy 2
DHYG 2620L Head and Neck Anatomy Lab 1
DHYG 2630 Management of Medical/Dental Emergencies 2
DHYG 2602 Dental Hygiene 2 2
DHYG 2602L Clinical Dental Hygiene 2 2
DHYG 2640 Oral Histology 2
DHYG 3703 Dental Hygiene 3 3
DHYG 3703L Clinical Dental Hygiene 3 3
DHYG 3750 Oral Pathology 2
DHYG 3760 Dental Radiology 3
DHYG 3760L Dental Radiology Lab 1
DHYG 3770 Periodontology 3
AHLT 4805 Health Education for Allied Health 3
DHYG 3704 Dental Hygiene 4 3
DHYG 3704L Clinical Dental Hygiene 4 3
DHYG 3780 Pharmacology 2
DHYG 3790 Local Anesthesia and Pain Control for Dental Hygienists 2
DHYG 3790L Local Anesthesia and Pain Control Clinic 1
AHLT 4806 Research Methods 3
DHYG 4805 Dental Hygiene 5 3
DHYG 4805L Clinical Dental Hygiene 5 4
DHYG 4830 Dental Materials 1
DHYG 4830L Dental Materials Lab 1
DHYG 4840 Directed Dental Hygiene Research 3
DHYG 4845 Expanded Functions for the Dental Hygienist 3

DHYG 4845L Expanded Functions for the Dental Hygienist Lab 1
DHYG 4806 Dental Hygiene 6 2
DHYG 4806L Clinical Dental Hygiene 6 4
DHYG 4850 Dental Public Health 3
DHYG 4850L Community Clinicals 1
DHYG 4860 Ethics and Practice Concepts 2
DHYG 4855L Expanded Functions Clinical 2

Total Semester Hours 123-126

Year 1

Fall

ENGL 1550 Writing 1 3
or ENGL 1549 Writing 1 with Support 3
CMST 1545 Communication Foundations 3
MATH 2623 Quantitative Reasoning 3
or STAT 2625 Statistical Literacy and Critical Reasoning 3
PHIL 2625 Introduction to Professional Ethics (required for major) 3
Arts and Humanities Elective 3
PHIL 2625 Introduction to Professional Ethics (required for major) 3
Arts and Humanities Elective 3
CHEM 1505 Allied Health Chemistry 1 3
& 1505L and (required for major) 3
CHEM 1506 Allied Health Chemistry 2 3
& 1506L and (required for major) 3
Social Science (6 s.h.)
PSYC 1560 General Psychology (required for major) 3
SOC 1500 Introduction to Sociology (required for major) 3
Social and Personal Awareness (6 s.h.)

Year 2

Fall

BIOL 1545 Allied Health Anatomy and Physiology 5
& 1545L and Allied Health Anatomy and Physiology Laboratory 2
BIOL 1560 Microbiology for the Health Professions 2
BIOL 1560L Microbiology Laboratory for Health Professions 1
or MLT 2687L Microbiology for Health Care Laboratory 1

Summer

PHIL 2625 Introduction to Professional Ethics 3
AHLT 4806 Research Methods 3
DHYG 4805 Dental Hygiene 5 3
DHYG 4805L Clinical Dental Hygiene 5 4
DHYG 4830 Dental Materials 1
DHYG 4830L Dental Materials Lab 1
DHYG 4840 Directed Dental Hygiene Research 3
DHYG 4845 Expanded Functions for the Dental Hygienist 3

Semester Hours 15-16

Spring

ENGL 1550 Writing 1 3
or ENGL 1549 Writing 1 with Support 3
CMST 1545 Communication Foundations 3
CHEM 1505 Allied Health Chemistry 2 3
& 1505L and Allied Health Chemistry and Physiology Laboratory 3
PSYC 1560 General Psychology 3
MATH 2623 or STAT 2625 Quantitative Reasoning 3
or Statistical Literacy and Critical Reasoning 3

Year 3

Fall

BIOL 1560 Microbiology for the Health Professions 2
BIOL 1560L Microbiology Laboratory for Health Professions 1
or MLT 2687L Microbiology for Health Care Laboratory 1
PHIL 2625 Introduction to Professional Ethics 3
AHLT 4806 Research Methods 3
DHYG 4805 Dental Hygiene 5 3
DHYG 4805L Clinical Dental Hygiene 5 4
DHYG 4830 Dental Materials 1
DHYG 4830L Dental Materials Lab 1
DHYG 4840 Directed Dental Hygiene Research 3
DHYG 4845 Expanded Functions for the Dental Hygienist 3

Semester Hours 15-16

Spring

DHYG 2601 Dental Hygiene 1 3
DHYG 2601L Clinical Dental Hygiene 1 2
DHYG 2620 Head and Neck Anatomy 2
DHYG 2620L Head and Neck Anatomy Lab 1
DHYG 2630 Management of Medical/Dental Emergencies 2
DHYG 2602 Dental Hygiene 2 2
DHYG 2602L Clinical Dental Hygiene 2 2
DHYG 2640 Oral Histology 2
DHYG 3703 Dental Hygiene 3 3
DHYG 3703L Clinical Dental Hygiene 3 3
DHYG 3750 Oral Pathology 2
DHYG 3760 Dental Radiology 3
DHYG 3760L Dental Radiology Lab 1
DHYG 3770 Periodontology 3
AHLT 4805 Health Education for Allied Health 3
DHYG 3704 Dental Hygiene 4 3
DHYG 3704L Clinical Dental Hygiene 4 3
DHYG 3780 Pharmacology 2
DHYG 3790 Local Anesthesia and Pain Control for Dental Hygienists 2
DHYG 3790L Local Anesthesia and Pain Control Clinic 1
AHLT 4806 Research Methods 3
DHYG 4805 Dental Hygiene 5 3
DHYG 4805L Clinical Dental Hygiene 5 4
DHYG 4830 Dental Materials 1
DHYG 4830L Dental Materials Lab 1
DHYG 4840 Directed Dental Hygiene Research 3
DHYG 4845 Expanded Functions for the Dental Hygienist 3

Semester Hours 13

Summer

DHYG 2602 Dental Hygiene 2 2
DHYG 2602L Clinical Dental Hygiene 2 2
DHYG 2640 Oral Histology 2

Semester Hours 6
Overview

Medical Laboratory Programs

Laboratory analysis plays an important role in the detection, diagnosis, and treatment of many diseases. Laboratory professionals perform a myriad of such tests to aid the physician in the management of disease.

For more information, contact Joan O’Connell-Spalla 330-941-1761 joconnellspalla@ysu.edu

MLS Internship Guidelines

Students should apply for Medical Laboratory Science Internship upon completion of the second year of the program or after completing approximately 60-65 semester hours. Application packets containing information on clinical affiliations and the application process are available from the program director or in the Department of Health Professions. Students must apply for graduation at the beginning of the junior year so that their transcripts may be evaluated by an academic advisor in the Bontine College of Health and Human Services. This application will help ensure that all of the requirements for internship and graduation have been fulfilled.

The University does not guarantee acceptance into the fourth year of hospital clinical internship. Selection and acceptance into a particular hospital program is based on that program’s admission and selection process. Thus, students are selected by the hospital programs, which are very competitive. Students are urged to maintain a minimum 3.0 GPA, especially in all science and medical laboratory courses. To enhance their chances of acceptance into a medical internship, students are encouraged to apply to several accredited programs. A list of these programs is available through the program director. Students should notify the program director upon their acceptance by a professional program.

Medical Laboratory Science (BS-MLS) Curriculum

The medical laboratory science program is a four-year program leading to a Bachelor of Science degree with a major in Medical Laboratory Science. Students in the program must have a physical examination and provide records of their immunizations, including the hepatitis B immunization series.

All course work in the MLS program must be completed with a minimum grade of “C”. Students must maintain an overall GPA of 2.75 and a GPA of 2.75 in all MLS courses. Students receiving a total of 6 semester hours of “D” or “F” grades in MLS, biology or chemistry courses will be dismissed from the program. Readmission to the program is based on GPA and the availability of space in the class.

The program follows the "3+1" format with the student completing a preprofessional phase of courses in clinical laboratory technology, general chemistry, biological sciences, organic and biochemistry, microbiology, immunology, and mathematics during the first three years of the program. The final year of the program is completed at an accredited MLS hospital program. Upon successful program completion, graduates are qualified to take the certification examinations offered through ASCP and become certified as MLS (ASCP). Additionally, a MLT-to-MLS completion program is available.

Medical laboratory scientists perform hundreds of scientific procedures that have been devised to detect subtle changes that occur in disease. The MLS performs a full range of laboratory tests, ranging from complete blood counts, to more complex tests to uncover diseases such as leukemia, and diabetes. Studying blood cells under the microscope, the analysis of the chemical composition of blood, the isolation and identification of disease causing bacteria, and blood grouping and cross matching for transfusions are examples of the high complexity procedures performed by medical laboratory scientists. Positions are available as bench-level technologists, supervisors, and laboratory managers.
In addition to traditional laboratory careers, there are opportunities in education, research, and in industry as technical and sales representatives. In their quest to aid the physician and other health care providers, laboratory professionals do much more than look through a microscope. They operate complex analytical equipment, perform computations, and utilize precision instruments. Medical laboratory scientists act as an integral part of the health care team. Because of their academic and diverse clinical experience, graduates are well qualified for post-graduate programs in medicine, clinical chemistry, and biology.

**Advanced Placement Option - Medical Laboratory Science**

The Advanced Placement Option in the Medical Laboratory Science program provides a pathway for ASCP certified Medical Laboratory Technicians (MLT) to become Medical Laboratory Scientists (MLS). The program is designed to meet the needs of the working medical laboratory technician so that they can pursue their degree while still employed as a laboratory professional and to address the growing local, regional and national shortage of medical laboratory scientists.

Applicants must meet the following criteria for acceptance into the program:

- Have graduated from a NAACLS accredited MLT/CLT program
- Have completed prerequisite course work in biology, chemistry, and mathematics and also meet Biology and Chemistry guidelines for eligibility for the ASCP MLS Certification examination.
- Be certified as a MLT(ASCP)
- Be employed in an accredited laboratory that is able to provide training in all required MLS disciplines.

Students may transfer courses from approved institutions with prior approval from the program director or department chairperson. Students may be granted experiential credit for a clinical course and, if so, will not be required to register for that course.

The MLS Advanced Placement Option is accredited through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS: 5600 N. River Rd. Suite 720 Rosemont, IL 60018-5119, Phone: 773.714.8880, www.naacls.org, info@naacls.org

**Course Title** | **Semester Hours**
--- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 or SS 1500 or HONR 1500 | 1-2

**General Education Elective**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
<td>4</td>
</tr>
<tr>
<td>Social Sciences (2 courses)</td>
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<td>6</td>
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<tr>
<td>Social &amp; Personal Awareness (2 courses)</td>
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<tr>
<td>Arts &amp; Humanities (2 courses)</td>
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**Major Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MLS 1501 &amp; 1501L</td>
<td>Introduction to the Medical Laboratory Profession and Introduction to the Medical Laboratory Profession Laboratory (2+1)</td>
</tr>
<tr>
<td>MLS 3700</td>
<td>Clinical Chemistry 2</td>
</tr>
<tr>
<td>MLS 3701 &amp; 3701L</td>
<td>Clinical Hematology 1 and Clinical Hematology 1 Laboratory</td>
</tr>
<tr>
<td>MLS 3702 &amp; 3702L</td>
<td>Clinical Hematology 2 and Clinical Hematology 2 Laboratory</td>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MLS 3703 &amp; 3703L</td>
<td>Clinical Immunology and Clinical Immunology Laboratory (3 + 1)</td>
</tr>
<tr>
<td>MLS 3787 &amp; 3787L</td>
<td>Diagnostic Microbiology and Diagnostic Microbiology Laboratory (3+2)</td>
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**Biology Courses**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory</td>
</tr>
<tr>
<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory</td>
</tr>
<tr>
<td>BIOL 1545 &amp; 1545L</td>
<td>Allied Health Anatomy and Physiology and Allied Health Anatomy and Physiology Laboratory</td>
</tr>
<tr>
<td>BIOL 3702 &amp; 3702L</td>
<td>Microbiology and Microbiology Laboratory</td>
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**Chemistry Courses**

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<thead>
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<th>Title</th>
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<tr>
<td>CHEM 1510 &amp; 1510L</td>
<td>Chemistry for the Allied Health Sciences and Chemistry for the Allied Health Sciences Laboratory</td>
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<tr>
<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory</td>
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<tr>
<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory</td>
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<tr>
<td>CHEM 3719 &amp; 3719L</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory</td>
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**Internship Year**

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<th>Course</th>
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<tbody>
<tr>
<td>MLS 4800 &amp; 4800L</td>
<td>Advanced Clinical Chemistry and Advanced Clinical Chemistry Clinical Experience (4+2)</td>
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<tr>
<td>MLS 4801 &amp; 4801L</td>
<td>Advanced Hematology and Advanced Hematology Clinical Practice (4+3)</td>
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<tr>
<td>MLS 4802 &amp; 4802L</td>
<td>Advanced Immunohematology and Advanced Immunohematology Clinical Practice (4+3)</td>
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<tr>
<td>MLS 4803 &amp; 4803L</td>
<td>Advanced Microbiology and Advanced Microbiology Clinical Practice (5+3)</td>
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<tr>
<td>MLS 4804 &amp; 4804L</td>
<td>Miscellaneous Clinical Experience and Miscellaneous Clinical Practice (4+2)</td>
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<tr>
<td>AHLT 4806</td>
<td>Research Methods</td>
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**Total Semester Hours** 124-125

**Year 1**

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<tr>
<td>Fall</td>
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<td>1-2</td>
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<tr>
<td></td>
<td>or Intro to Honors</td>
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<tr>
<td></td>
<td>or Strong Start Success Seminar</td>
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<tr>
<td></td>
<td>MLS 1501 &amp; 1501L</td>
<td>3</td>
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<tr>
<td></td>
<td>Introduction to the Medical Laboratory Profession and Introduction to the Medical Laboratory Profession Laboratory</td>
<td></td>
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<tr>
<td></td>
<td>CHEM 1510</td>
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<td>Chemistry for the Allied Health Sciences</td>
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<td>CMST 1545</td>
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<td></td>
<td>Communication Foundations</td>
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<td>Writing 1</td>
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**Spring**

<table>
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<tr>
<th>Semester</th>
<th>Course Title</th>
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<tr>
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<td>ENGL 1551</td>
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</tr>
<tr>
<td></td>
<td>CHEM 1515</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CHEM 1515L</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>BIOL 2601</td>
<td>4</td>
</tr>
</tbody>
</table>
### Bachelor of Science in Medical Laboratory Science Advanced Placement Option

**Program Director:** Joan O'Connell-Spalla  
(330) 941-1761  
joconnells@ysu.edu

The Advanced Placement Option in the Medical Laboratory Science program provides a pathway for ASCP certified Medical Laboratory Technicians (MLT) to become Medical Laboratory Scientists (MLS). The program is designed to meet the needs of the working medical laboratory technician so that they can pursue their degree while still employed as a laboratory professional.

### Learning Outcomes

The student learning outcomes for the medical laboratory programs (MLS-BS and MLT-AAS) are as follows:

- Graduates will be prepared to function as entry-level health care professionals in the medical laboratory as medical laboratory technicians and medical laboratory scientists. At entry level, the medical laboratory graduate will be able to demonstrate the ability to comprehend, apply and evaluate information relative to the medical laboratory profession.
- These learning outcomes include comprehension of the theory and the ability to apply and evaluate the didactics of hematology, clinical chemistry, immunohematology, microbiology, immunology, coagulation, molecular diagnostics, and other emerging diagnostics.
- Graduates will be prepared to function as entry-level health care professionals in the medical laboratory as medical laboratory technicians and medical laboratory scientists. Upon completion of the program, graduates will demonstrate technical proficiency in laboratory applications.
- These psychomotor learning outcomes include the performance of laboratory procedures in hematology, clinical chemistry, immunohematology, microbiology, immunology, coagulation, molecular diagnostics, and other emerging diagnostics. The graduate will demonstrate proficiency in the functions of all phases of laboratory analysis (pre-analytical, analytical, and post-analytical processes).
- Graduates will demonstrate professional conduct and interpersonal communication skills consistent with the medical laboratory profession.
- Students will exhibit the ability to think critically across all 3700-level courses through the application of fundamental didactic and psychomotor skills to assess the medical relevance and significance of specific aspects of laboratory testing.

### Bachelor of Science in Medical Laboratory Science Advanced Placement Option

#### Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLS 4801</td>
<td>Advanced Hematology</td>
<td>4</td>
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<tr>
<td>MLS 4801L</td>
<td>Advanced Hematology Clinical Practice</td>
<td>3</td>
</tr>
<tr>
<td>MLS 4802</td>
<td>Advanced Immunohematology</td>
<td>4</td>
</tr>
<tr>
<td>MLS 4802L</td>
<td>Advanced Immunohematology Clinical Practice</td>
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**Total Semester Hours:** 14

---

#### Summer

<table>
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<th>Course Code</th>
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<th>Semester Hours</th>
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<tr>
<td>AHLT 4806</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>MLS 4804</td>
<td>Miscellaneous Clinical Experience</td>
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<tr>
<td>MLS 4804L</td>
<td>Miscellaneous Clinical Practice</td>
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</table>

**Total Semester Hours:** 9

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#### Year 4

#### Fall

<table>
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<th>Course Name</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>MLS 4801</td>
<td>Advanced Hematology</td>
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</tr>
<tr>
<td>MLS 4801L</td>
<td>Advanced Hematology Clinical Practice</td>
<td>3</td>
</tr>
<tr>
<td>MLS 4802</td>
<td>Advanced Immunohematology</td>
<td>4</td>
</tr>
<tr>
<td>MLS 4802L</td>
<td>Advanced Immunohematology Clinical Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours:** 14

---

### General Education Requirements

The 32 semester hours required for General Education electives must include:

- Six courses from the Natural Sciences, two courses from Social Science, and two courses from Arts & Humanities.
and to address the growing local, regional and national shortage of medical laboratory scientists.

Applicants must meet the following criteria for acceptance into the program:

- Have graduated from a NAACLS accredited MLT/CLT program
- Have completed prerequisite course work in biology, chemistry, and mathematics and also meet Biology and Chemistry guidelines for eligibility for the ASCP MLS Certification examination.
- Be certified as a MLT (ASCP)
- Be employed in an accredited laboratory that is able to provide training in all required MLS disciplines.

Students may transfer courses from approved institutions with prior approval from the program director or department chairperson. Students may be granted experiential credit for a clinical course and, if so, will not be required to register for that course.

Outcome measures for the MLS Advanced Placement program over the past three years include: 86% graduation rate and a 100% placement rate.

Certification exam pass rates over the past three years are as follows:

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of students who took the exam</th>
<th>Number of students who passed the exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2019</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2020</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

*3 year average pass rate 33%

The MLS Advanced Placement Option is accredited through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS: 5600 N. River Rd. Suite 720 Rosemont, IL 60018-5119, Phone: 773.714.8880, www.naacls.org, info@naacls.org

### Science Requirements

<table>
<thead>
<tr>
<th>Biology (Must include A&amp;P, Micro, Immunology)</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry (Must include Organic or Biochemistry)</td>
<td>16</td>
</tr>
</tbody>
</table>

### Bachelor of Science in Respiratory Care in Respiratory Care

**Program Director**

Dr. Kelly L. Colwell  
(330) 941-2631  
kcolwell@ysu.edu

**Overview**

Respiratory care is an allied health profession concerned with the diagnostic evaluation, treatment, and management of patients with cardiopulmonary disorders. The respiratory care practitioner (RCP) is proficient in:

- therapeutic administration of medical gases and aerosols
- intermittent and continuous mechanical ventilation
- broncho-pulmonary hygiene
- basic and advanced cardiac life support techniques
- non-invasive patient monitoring
- pulmonary function evaluation
- arterial blood gas analysis
- airway management procedures
- pulmonary rehabilitation techniques

A licensed RCP must also be knowledgeable regarding various assessment techniques and patient education models. These skills are used with neonatal, pediatric, and adult patients in acute, sub-acute, and home care settings. To function effectively as a member of the multidisciplinary health care team, the RCP must have a sound understanding of:

- the physiological, psychological, and cultural needs of the patient
- the role of the various therapeutic interventions in the patient care plan
- development of broad-based skills to more effectively contribute to the overall care of the patient

Theory and laboratory experiences are provided prior to the student’s entry into the clinical education phase of the program. This program can be completed in four calendar years. It includes three summer sessions. A sleep diagnostics option is also available. Please visit Respiratory Care (http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-health-professions/bs-respiratory-care/) for more information.

### Accreditation

The Bachelor of Science in Respiratory Care (CoARC #200247) at Youngstown State University, Youngstown, Ohio is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (https://www.coarc.com/)). To view CoARC Program outcomes please visit CoARC Outcomes Data (https://www.coarc.com/Students/Programmatic-Outcome-Data.aspx).

The goals of the Bachelor of Science in Respiratory Care are:

- To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).
- To prepare leaders for the field of respiratory care by including curricular content that includes objectives related to acquisition of skills one or more of the following: management, education, research, and advanced clinical practice (which may include an area of clinical specialization).
Polysomnography Certificate is:

- To prepare sleep disorder specialists with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of polysomnography practice as performed by sleep disorder specialists (SDS).

**COURSE**  | **TITLE**  | **S.H.**
---|---|---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 
or HONR 1500 | Intro to Honors | 
**General Education Requirements**
ENGL 1550 | Writing 1 | 3-4
or ENGL 1549 | Writing 1 with Support | 
ENGL 1551 | Writing 2 | 3
CMST 1545 | Communication Foundations | 3
Mathematics requirement (met with MATH 2623) | 
Arts and Humanities (6 s.h.) | 
PHIL 2625 | Introduction to Professional Ethics (required for major) | 3
One additional Arts and Humanities course | 3
Natural Sciences (2 courses; 1 with lab) (7 s.h.) | Met with BIOL 1545/1545L and CHEM 1510/1510L | 
Social Science (6 s.h.) | 
SOC 1500 | Introduction to Sociology (required for major) | 3
PSYC 1560 | General Psychology (required for major) | 3
Social and Personal Awareness (6 s.h.) | 
PHLT 1568 | Healthy Lifestyles | 3
or PHLT 1531 | Fundamentals of Public Health | 
One additional S&PA course | 3
**Pre-Respiratory Courses**
BIOL 1545 | Allied Health Anatomy and Physiology | 5
BIOL 1545L | Allied Health Anatomy and Physiology Laboratory (BIOL 1545/1545L satisfies a NS GER Knowledge Domain) | 0
BIOL 1560 | Microbiology for the Health Professions (required for major) | 2
BIOL 1560L | Microbiology Laboratory for Health Professions (required for major) | 1
CHEM 1510 | Chemistry for the Allied Health Sciences | 4
CHEM 1510L | Chemistry for the Allied Health Sciences Laboratory (CHEM 1510/1510L satisfies a NS GER Knowledge Domain) | 0
MATH 2623 | Quantitative Reasoning (MATH 2623 satisfies the MATH GER for University Basic Skills) | 3
**Respiratory Care Courses**
RESC 1530 | Foundations of Respiratory Care | 3
RESC 3710 | Respiratory Care Pharmacology | 3
RESC 1503 | Respiratory Procedures 1 | 3
RESC 1503L | Respiratory Procedures 1 Lab | 1
RESC 1520 | Respiratory Care Assessment 1 | 2
RESC 1520L | Respiratory Assessment 1 Lab | 1
RESC 2620L | Respiratory Assessment 2 Lab | 1
RESC 2620 | Respiratory Assessment 2 | 2
RESC 2621 | Cardiopulmonary Disease | 3
RESC 3706 | Respiratory Procedures 2 | 2
RESC 3706L | Respiratory Procedures 2 Lab | 1
RESC 3720 | Mechanical Ventilation 1 | 2
RESC 3720L | Mechanical Ventilation 1 Lab | 1
HAHS 5875 | Interprofessional Education for Health Professions | 3
AHLT 5840 | Comparative Health Systems | 3
RESC 2699 | Clinical Practice 1 | 1
RESC 3708 | Respiratory Clinical Specialties | 3
RESC 3708L | Respiratory Clinical Specialties Lab | 1
RESC 3709 | Neonatal/Pediatric Respiratory Care | 3
RESC 3709L | Neonatal/Pediatric Respiratory Care Lab | 1
RESC 3725 | Mechanical Ventilation 2 | 2
RESC 3725L | Mechanical Ventilation 2 Lab | 1
RESC 4867 | Fundamentals of Leader Development | 3
RESC 3740 | Clinical Practice 2 | 3
RESC 4870 | Advanced Cardiopulmonary Case Management | 3
RESC 3765 | Advanced Respiratory Care Diagnostics | 3
RESC 3741 | Clinical Practice 3 | 3
RESC 4831 | Pulmonary Case Management | 3
AHLT 4806 | Research Methods | 3
AHLT 4813 | Adult Cardiac and Pediatric Advanced Life Support | 3
RESC 4838 | Respiratory Seminar 1 | 1
RESC 5820 | The Respiratory Care Profession | 3
RESC 4842 | Respiratory Seminar 2 | 1
AHLT 4820 | Directed Research | 3
RESC 4835 | Clinical Practice 4 | 3
RESC 5860 | Technology Applications for Health and Human Services | 3

**Total Semester Hours** 124-126

**Bachelor of Science Respiratory Care (BSRC) Curriculum**

**Year 1**

**Fall**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 
ENGL 1550 | Writing 1 | 3-4
or ENGL 1549 | Writing 1 with Support | 
Biol 1545 | Allied Health Anatomy and Physiology | 5
or 1545L | Allied Health Anatomy and Physiology Laboratory (BIOL 1545/1545L satisfies a NS GER Knowledge Domain) | 0
MATH 2623 | Quantitative Reasoning | 3
CMST 1545 | Communication Foundations | 3

**Semester Hours** 15-17

**Spring**
ENGL 1551 | Writing 2 | 3
CHEM 1510 | Chemistry for the Allied Health Sciences | 4
CHEM 1510L | Chemistry for the Allied Health Sciences Laboratory | 0
SOC 1500 | Introduction to Sociology | 3
PHLT 1568 | Healthy Lifestyles | 3
or PHLT 1531 | Fundamentals of Public Health | 

**Semester Hours** 13

**Year 2**

**Fall**
RESC 1530 | Foundations of Respiratory Care | 3
BIOL 1560 | Microbiology for the Health Professions | 3
or 1560L | Microbiology Laboratory for Health Professions Laboratory | 
PHIL 2625 | Introduction to Professional Ethics | 3
### Bachelor of Science in Respiratory Care Degree Advancement Completion Track

- **Respiratory Care Pharmacology**
  - Semester Hours: 3

### Spring
- **Respiratory Procedures 1**
  - Semester Hours: 4
- **Respiratory Care Assessment 1**
  - Semester Hours: 3
- **General Psychology**
  - Semester Hours: 3
- **Elective (SPA Gen Ed)**
  - Semester Hours: 3

### Semester Hours
- Total: 12

### Summer
- **Respiratory Assessment 2**
  - Semester Hours: 3
- **Cardiopulmonary Disease**
  - Semester Hours: 3

### Semester Hours
- Total: 6

### Year 3
- **Respiratory Procedures 2**
  - Semester Hours: 3
- **Mechanical Ventilation 1**
  - Semester Hours: 3
- **Interprofessional Education for Health Professions**
  - Semester Hours: 3
- **Comparative Health Systems**
  - Semester Hours: 3

### Semester Hours
- Total: 12

### Spring
- **Clinical Practice 1**
  - Semester Hours: 1
- **Respiratory Clinical Specialties**
  - Semester Hours: 3
- **Neonatal/Pediatric Respiratory Care**
  - Semester Hours: 3
- **Mechanical Ventilation 2**
  - Semester Hours: 2
- **Respiratory Care Management**
  - Semester Hours: 3
- **Fundamentals of Leader Development**
  - Semester Hours: 1

### Semester Hours
- Total: 12

### Summer
- **Clinical Practice 2**
  - Semester Hours: 3
- **Advanced Cardiopulmonary Case Management**
  - Semester Hours: 3

### Semester Hours
- Total: 6

### Year 4
- **Advanced Respiratory Care Diagnostics**
  - Semester Hours: 3
- **Clinical Practice 3**
  - Semester Hours: 3
- **Pulmonary Case Management**
  - Semester Hours: 3
- **Adult Cardiac and Pediatric Advanced Life Support**
  - Semester Hours: 3
- **Research Methods**
  - Semester Hours: 3
- **Respiratory Seminar 1**
  - Semester Hours: 1
- **The Respiratory Care Profession**
  - Semester Hours: 3

### Semester Hours
- Total: 19

### Spring
- **Respiratory Seminar 2**
  - Semester Hours: 1
- **Directed Research**
  - Semester Hours: 3
- **Arts and Humanities Gen Ed Elective**
  - Semester Hours: 3
- **Clinical Practice 4**
  - Semester Hours: 3
- **Technology Applications for Health and Human Services**
  - Semester Hours: 3

### Semester Hours
- Total: 13

### Total Semester Hours
- 121-123

---

**Learning Outcomes**

The student learning outcomes for the major in Respiratory Care are as follows:

- Upon completion of the program, graduates will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their roles as advanced-level respiratory therapists (cognitive domain).
- Upon completion of the program, graduates will demonstrate technical proficiency in all the skills necessary to fulfill their role as advanced level respiratory therapists (psychomotor domain).
- Upon completion of the program, graduates will demonstrate professional behavior consistent with employer expectations as advanced-level respiratory therapists (affective domain).

The student learning outcomes for the Sleep Diagnostic Option in Respiratory Care are as follows:

- Upon completion of the program, graduates will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their roles as sleep disorder specialists (cognitive domain).
- Upon completion of the program, graduates will demonstrate technical proficiency in all the skills necessary to fulfill their role as sleep disorder specialists (psychomotor domain).
- Upon completion of the program, graduates will demonstrate professional behavior consistent with employer expectations as sleep disorder specialists (affective domain).

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**Bachelor of Science in Respiratory Care Degree Advancement Completion Track**

**Program Director**

Dr. Kelly L. Colwell  
(330) 941-2631  
kcolwell@ysu.edu

**Overview**

This online program is designed to provide a focused advancement option that will bridge the depth and breadth of knowledge of the certified or registered respiratory therapist who has graduated from a Commission on Accreditation for Respiratory Care (CoARC) accredited associate degree program to meet the clinical and leadership needs of the respiratory care profession. The core curriculum builds on the existing foundation of knowledge and skills in the areas of:

- advanced cardiopulmonary disease management
- advanced clinical applications
- clinical research
- leadership and technology related to the practice of respiratory care

Upon completion of the Required Core Upper Division Courses with a minimum GPA of 2.5, the student will be awarded up to 17 semester hours of upper division credit from their associate degree respiratory care courses.
The curriculum assumes that a student entering into the Respiratory Care Completion Program has an unencumbered license.

The following block credit will be granted and posted on the student’s transcripts after admission to the program:

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ELCT 15XX Social Science</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELCT 15XX Social Science or Social and Personal Awareness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELCT 15XX Social and Personal Awareness</td>
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</tr>
<tr>
<td>ELCT 15XX Arts &amp; Humanities</td>
<td></td>
<td></td>
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<tr>
<td>ELCT 15XX Natural Science</td>
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**General Education Requirements (to be completed for BS degree)**

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<thead>
<tr>
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<th>TITLE</th>
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<tbody>
<tr>
<td>STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
<td>4</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2 (^1)</td>
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</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
<td>3</td>
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<tr>
<td>CHEM 1510</td>
<td>Chemistry for the Allied Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
<td>3</td>
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<tr>
<td>CHEM 1520</td>
<td>Allied Health Chemistry for Online Programs (Chem 1520 or equiv (3SH))</td>
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**Associate Degree Respiratory Care Courses -Transfer Credit**

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<tbody>
<tr>
<td>RESC 1500</td>
<td>Introduction to Online Learning in Health Professions</td>
<td>3</td>
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<tr>
<td>RESC 3731</td>
<td>Respiratory Care Management</td>
<td>3</td>
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<tr>
<td>RESC 3765</td>
<td>Advanced Respiratory Care Diagnostics</td>
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<tr>
<td>RESC 4860</td>
<td>Advanced Management of the Ventilator Patient</td>
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<tr>
<td>RESC 4862</td>
<td>Professional Pathways for Respiratory Care Practitioners</td>
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<tr>
<td>RESC 4867</td>
<td>Fundamentals of Leader Development</td>
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<tr>
<td>RESC 4870</td>
<td>Advanced Cardiopulmonary Case Management</td>
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<tr>
<td>RESC 4872</td>
<td>Technology Applications for RCPs</td>
<td>3</td>
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<tr>
<td>AHLT 3705</td>
<td>Pharmacotherapeutics</td>
<td>3</td>
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<td>AHLT 4806</td>
<td>Research Methods</td>
<td>3</td>
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<td>AHLT 4820</td>
<td>Directed Research</td>
<td>3</td>
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<tr>
<td>AHLT 5840</td>
<td>Comparative Health Systems</td>
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Electives (if Additional Upper Division Hours Are Needed)

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>RESC 4801</td>
<td>Special Topics in Respiratory Care</td>
<td>1-3</td>
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<tr>
<td>RESC 4810</td>
<td>Advanced Neonatal and Pediatric Case Management</td>
<td>3</td>
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<tr>
<td>AHLT 3740</td>
<td>Pathology of Infectious Diseases</td>
<td>3</td>
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<tr>
<td>AHLT 3755</td>
<td>Principles of Occupational Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 4804</td>
<td>Stress and the Health Care Professional</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 4808</td>
<td>Environmental Health Concerns</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 5831</td>
<td>Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 5816</td>
<td>Environmental Regulations</td>
<td>3</td>
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Upper Division (3700, 4800, 5800 level) Hours Required 39 s.h.

**Total Semester Hours** 138-140

1. Certain general education courses, such as ENGL 1551, have prerequisites. Normal prerequisite rules apply for students taking the General Education Completion Program.

2. Transfer credit hours are dependent upon course evaluation and are estimated at 41 hours based on a 60 hour Associates program. Credit hours may vary depending on the institution where courses where taken and accreditation requirements.

For more information, please visit the Distance Education (http://cms.ysu.edu/administrative-offices/distance-education/online-bachelor-science-respiratory-care-completion/) website.

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**Bachelor of Science in Respiratory Care in Respiratory Care Completion Track with Advanced Placement Option to Master of Respiratory Care**

**Program Director**

Dr. Kelly L. Colwell
(330) 941-2631
klcolwell@ysu.edu

**Overview**

This online program is designed to provide a focused advancement option that will bridge the depth and breadth of knowledge of the certified or registered respiratory therapist who has graduated from a Commission on Accreditation for Respiratory Care (CoARC) accredited associate degree program to meet the clinical and leadership needs of the respiratory care profession. The core curriculum builds on the existing foundation of knowledge and skills in the areas of:

- advanced cardiopulmonary disease management
- advanced clinical applications
- clinical research
- leadership and technology related to the practice of respiratory care

Upon completion of the Required Core Upper Division Courses with a minimum GPA of 2.5, the student will be awarded up to 17 semester hours of upper division credit from their associate degree respiratory care courses.

The advanced placement option allows the undergraduate BSRC Completion student to take up to 9 semester hours of graduate credit that can be applied to the Master of Respiratory Care program. Upon completion of the BSRC, the student must apply to and be accepted into the Graduate School and the Master of Respiratory Care Program in order to apply the graduate credits earned during the BSRC program. To be accepted into the BSRC Advanced Placement option, the student must be Junior standing in BSRC Completion Program and have completed 15 semester hours of required core upper division courses and have an overall minimum GPA of 3.2.

Once accepted into the BSRC Advanced Placement Option, the student must maintain a GPA of 3.0 to continue to take graduate level courses.

The goals of the Bachelor of Science in Respiratory Care are:

- To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).
- To prepare leaders for the field of respiratory care by including curricular content that includes objectives related to acquisition of skills one or more of the following: management, education, research, and advanced clinical practice.

**Course Requirements**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESC 1500</td>
<td>Introduction to Online Learning in Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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</table>

**General Education Requirements**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>
Disorders. The respiratory care practitioner (RCP) is proficient in:
• therapeutic administration of medical gases and aerosols
• intermittent and continuous mechanical ventilation

A licensed RCP must also be knowledgeable regarding various assessment techniques and patient education models. These skills are used with neonatal, pediatric, and adult patients in acute, sub-acute, and home care settings. To function effectively as a member of the multidisciplinary health care team, the RCP must have a sound understanding of:
• the physiological, psychological, and cultural needs of the patient
• the role of the various therapeutic interventions in the patient care plan
• development of broad-based skills to more effectively contribute to the overall care of the patient

Theory and laboratory experiences are provided prior to the student’s entry into the clinical education phase of the program. This program can be completed in four calendar years. It includes three summer sessions. A sleep diagnostics option is also available. Please visit Respiratory Care (http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-health-professions/bs-respiratory-care/) for more information.

The advanced placement option allows the undergraduate BSRC student to take up to 9 semester hours of graduate credit that can be applied to the Master of Respiratory Care program. Upon completion of the BSRC, the student must apply to and be accepted into the Graduate School and the Master of Respiratory Care Program in order to apply the graduate credits earned during the BSRC program. To be accepted into the BSRC Advanced Placement option, the student must meet the following criteria:
1. Junior standing with an overall GPA of a minimum of 3.2; or,
2. Junior standing in BSRC Completion Program and have completed 15 semester hours of required core upper division courses and have an overall minimum GPA of 3.2

Once accepted into the BSRC Advanced Placement Option, the student must maintain a GPA of 3.0 to continue to take graduate level courses.

Accreditation
The Bachelor of Science in Respiratory Care (CoARC #200247) at Youngstown State University, Youngstown, Ohio is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (https://www.coarc.com)). To view CoARC Program outcomes please visit CoARC Outcomes Data (https://www.coarc.com/Students/Programmatic-Outcome-Data.aspx).

The goals of the Bachelor of Science in Respiratory Care are:
• To prepare graduates with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of respiratory care practice as performed by registered respiratory therapists (RRTs).
• To prepare leaders for the field of respiratory care by including curricular content that includes objectives related to acquisition of skills one or more of the following: management, education, research, and advanced clinical practice (which may include an area of clinical specialization).

Polysomnography Certificate Goal:
To prepare sleep disorder specialists with demonstrated competence in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains of polysomnography practice as performed by sleep disorder specialists (SDS).
### General Education Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics (required for major)</td>
<td>3</td>
</tr>
<tr>
<td>One additional Arts and Humanities course</td>
<td></td>
<td>3</td>
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<tr>
<td>Natural Science (2 course; 1 with lab) (6-7 s.h.)</td>
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<td>6</td>
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<tr>
<td>BIOL 1560</td>
<td>Microbiology for the Health Professions (required for major)</td>
<td>2</td>
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<tr>
<td>BIOL 1560L</td>
<td>Microbiology Laboratory for Health Professions (required for major)</td>
<td>1</td>
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<tr>
<td>One additional Natural Science course (can be met with BIOL 1545/1545L or CHEM 1510/1510L)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<td>6</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>PHLT 1568</td>
<td>Healthy Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>or PHLT 1531</td>
<td>Fundamentals of Public Health</td>
<td>3</td>
</tr>
<tr>
<td>One additional S&amp;PA course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>HAHS 1500</td>
<td>Strong Start FYE (First Year Experience course)</td>
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### Pre-Respiratory Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIOL 1545 &amp; 1545L</td>
<td>Allied Health Anatomy and Physiology and Allied Health Anatomy and Physiology Laboratory</td>
<td>5</td>
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<tr>
<td>CHEM 1510</td>
<td>Chemistry for the Allied Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1510L</td>
<td>Chemistry for the Allied Health Sciences Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>MATC 1501</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
</tbody>
</table>

### FIRST YEAR REQUIREMENT - STUDENT SUCCESS

- YSU 1500 or SS 1500 or HONR 1500: Success Seminar 1-2
- or PHLT 1568: Strong Start Success Seminar Intro to Honors 3

### Bachelor of Science Respiratory Care (BSRC) Curriculum

#### Year 1

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1545</td>
<td>Allied Health Anatomy and Physiology</td>
<td>5</td>
</tr>
<tr>
<td>MATC 1501</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 or Writing 1 with Support</td>
<td>3-4</td>
</tr>
<tr>
<td>HAHS 1500</td>
<td>Strong Start FYE</td>
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**Semester Hours**: 16-17

**Spring**

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<tbody>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
<td>CHEM 1510</td>
<td>Chemistry for the Allied Health Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1510L</td>
<td>Chemistry for the Allied Health Sciences Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 1568 or PHLT 1531</td>
<td>Healthy Lifestyles or Fundamentals of Public Health</td>
<td>3</td>
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**Semester Hours**: 16

**Year 2**

**Fall**

<table>
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<tbody>
<tr>
<td>RESC 1529</td>
<td>Respiratory Care Orientation</td>
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<tr>
<td>MATC 2605</td>
<td>Introduction to Pharmacology</td>
<td>3</td>
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<tr>
<td>RESC 1531</td>
<td>Respiratory Care Essentials</td>
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</tr>
<tr>
<td>RESC 1503</td>
<td>Respiratory Procedures 1</td>
<td>3</td>
</tr>
<tr>
<td>RESC 1520</td>
<td>Respiratory Care Assessment 1</td>
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<tr>
<td>PHYS 1506</td>
<td>Physics for Health Care</td>
<td>3</td>
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<tr>
<td>AHLT 3705</td>
<td>Pharmacotherapeutics</td>
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<tr>
<td>RESC 2621</td>
<td>Cardiopulmonary Disease</td>
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<tr>
<td>RESC 2620</td>
<td>Respiratory Assessment 2</td>
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<tr>
<td>RESC 3706</td>
<td>Respiratory Procedures 2</td>
<td>2</td>
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<tr>
<td>RESC 3720</td>
<td>Mechanical Ventilation 1</td>
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<tr>
<td>RESC 2699</td>
<td>Clinical Practice 1</td>
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<td>AHLT 4806</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>AHLT 5840</td>
<td>Comparative Health Systems</td>
<td>3</td>
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<tr>
<td>RESC 3708</td>
<td>Respiratory Clinical Specialties</td>
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<td>RESC 3725</td>
<td>Mechanical Ventilation 2</td>
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<tr>
<td>RESC 3709</td>
<td>Neonatal/Pediatric Respiratory Care</td>
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<td>RESC 3750</td>
<td>Pulmonary Rehabilitation</td>
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<td>RESC 3740</td>
<td>Clinical Practice 2</td>
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**Semester Hours**: 14

**Spring**

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<tbody>
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<td>Respiratory Procedures 1</td>
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<td>RESC 1520</td>
<td>Respiratory Care Assessment 1</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 3705</td>
<td>Pharmacotherapeutics</td>
<td>3</td>
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**Semester Hours**: 13

**Summer**

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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESC 2620</td>
<td>Respiratory Assessment 2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours**: 122-124
The student learning outcomes for the major in Respiratory Care are as follows:

- Upon completion of the program, graduates will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their roles as advanced-level respiratory therapists (cognitive domain).
- Upon completion of the program, graduates will demonstrate technical proficiency in all the skills necessary to fulfill their role as advanced level respiratory therapists (psychomotor domain).
- Upon completion of the program, graduates will demonstrate professional behavior consistent with employer expectations as advanced-level respiratory therapists (affective domain).

Learning Outcomes

The student learning outcomes for the major in Respiratory Care are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>RESC 2621</td>
<td>Cardiopulmonary Disease</td>
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<tr>
<td>RESC 3706</td>
<td>Respiratory Procedures 2</td>
<td>3</td>
</tr>
<tr>
<td>RESC 3720</td>
<td>Mechanical Ventilation 1</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 4806</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>Elective Arts and Humanities</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<tr>
<td>RESC 2699</td>
<td>Clinical Practice 1</td>
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<tr>
<td>RESC 3708</td>
<td>Respiratory Clinical Specialties</td>
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<tr>
<td>RESC 3709</td>
<td>Neonatal/Pediatric Respiratory Care</td>
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</tr>
<tr>
<td>RESC 3725</td>
<td>Mechanical Ventilation 2</td>
<td>3</td>
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<tr>
<td>RESC 3731</td>
<td>Respiratory Care Management</td>
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<td>RESC 3740</td>
<td>Clinical Practice 2</td>
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<td>RESC 3750</td>
<td>Pulmonary Rehabilitation</td>
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<td>RESC 3765</td>
<td>Advanced Respiratory Care Diagnostics</td>
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<td>RESC 3741</td>
<td>Clinical Practice 3</td>
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<td>RESC 4831</td>
<td>Pulmonary Case Management</td>
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<td>RESC 4838</td>
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<td>AHLT 4813</td>
<td>Adult Cardiac and Pediatric Advanced Life</td>
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<tr>
<td>AHLT 5840</td>
<td>Comparative Health Systems (<strong>Must be taken for graduate credit</strong>)</td>
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</tr>
<tr>
<td><strong>Semester Hours</strong></td>
<td><strong>16</strong></td>
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<td><strong>Spring</strong></td>
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<td>RESC 4835</td>
<td>Clinical Practice 4</td>
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<td>RESC 4842</td>
<td>Respiratory Seminar 2</td>
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<td>AHLT 4820</td>
<td>Directed Research</td>
<td>3</td>
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<td>Social &amp; Personal Awareness Elective</td>
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<tr>
<td>RESC 6900</td>
<td>The Respiratory Care Profession</td>
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<td>RESC 6920</td>
<td>Technology Applications for Health and</td>
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<tr>
<td>Human Services</td>
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<td><strong>Total Semester Hours</strong></td>
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</table>

Certificate in Health Information Systems

Undergraduate students in Computer Science Information Systems who have an interest in working in healthcare will be afforded the opportunity to acquire a certificate that will teach them computer and data system applications in the healthcare setting. Allied Health and other health-related majors who are already familiar with the healthcare setting will be provided with an opportunity to receive a greater depth and breadth of education in computer and information systems. This will better prepare the student to work with health information systems in the healthcare setting.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>AHLT 3707</td>
<td>Clinical Informatics for the Healthcare Provider</td>
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<tr>
<td>AHLT 3711</td>
<td>Health Care Information Systems</td>
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<tr>
<td>AHLT 3745</td>
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<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2663</td>
<td>Information Technology Management</td>
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<tr>
<td>Select one of the following courses</td>
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<tr>
<td>AHLT 3717</td>
<td>Health Care Policy</td>
<td></td>
</tr>
<tr>
<td>AHLT 5840</td>
<td>Comparative Health Systems</td>
<td></td>
</tr>
</tbody>
</table>

| Select one of the following courses |                           | 3-4 |
|-------------------------------------|---------------------------|
| CSIS 1525                           | Survey of Modern Operating Systems |     |
| CSIS 2605                           | Fundamentals of Programming and Problem-Solving | 2   |
| CSIS 2610                           | Programming and Problem-Solving |      |
| **Total Semester Hours**            | **21-22**                 |     |

Minor in Community Health Planning and Evaluation

The learning outcomes for this minor are:

- Students will be able to describe the context of community health planning and evaluation, its theories, and the organization of community health services.
- Students will be able to demonstrate basic skills in community health planning, evaluation, and if PHLT 4828 is selected, grant funding and development.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLT 1568</td>
<td>Healthy Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 3702</td>
<td>Health Education Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 3791</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AHLT 3708</td>
<td>Preventive Public Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 4801</td>
<td>Field Work in Health Education</td>
<td>1</td>
</tr>
<tr>
<td>PHLT 4826</td>
<td>Community Health Planning and Promotion</td>
<td>4</td>
</tr>
</tbody>
</table>
Minor in Environmental Health and Safety

The learning outcomes for this minor are:

- The student will be able to describe the historical, social, and ethical development of environmental health and safety.
- The student will be able to describe the governmental organizations that are responsible for administering environmental health and safety in the United States as well as internationally.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLT 1513</td>
<td>Introduction to Environmental Health and Safety</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 3708</td>
<td>Preventive Public Health Care</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 3709</td>
<td>Elements of Urban Environmental Health Practices</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 3755</td>
<td>Principles of Occupational Health and Safety</td>
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<tr>
<td>PHLT 4808</td>
<td>Environmental Health Concerns</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 5831</td>
<td>Industrial Hygiene</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 5816</td>
<td>Environmental Regulations</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 21

Minor in Public Health

The learning outcomes for this minor are:

- The student will be able to describe the five core public health content areas.
- The student will be able to demonstrate basic skills in each of the five core public health content areas.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHLT 1568</td>
<td>Healthy Lifestyles</td>
<td>3</td>
</tr>
<tr>
<td>or PHLT 1531</td>
<td>Fundamentals of Public Health</td>
<td></td>
</tr>
<tr>
<td>PHLT 3702</td>
<td>Health Education Theory and Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 3709</td>
<td>Elements of Urban Environmental Health Practices</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 3791</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>PHLT 4826</td>
<td>Community Health Planning and Promotion</td>
<td>4</td>
</tr>
<tr>
<td>AHLT 5807</td>
<td>Epidemiology</td>
<td>3</td>
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</tbody>
</table>

Total Semester Hours 19

Bachelor of Science in Applied Science in Exercise Science

Program Director
Garrett Kellar
gkellar@ysu.edu

Overview
The Department of Kinesiology and Sport Science offers a Bachelor of Science in Applied Science degree with a major in exercise science. This program prepares students for certification through the American College of Sports Medicine (ACSM) as a Certified Exercise Physiologist (EP) and the National Strength & Conditioning Association (NSCA) as a Certified Strength and Conditioning Specialist (CSCS).

As such, graduates will be able to design safe and effective exercise prescriptions and conduct individual exercise programs, fitness testing, and health education for low- to moderate-risk individuals, individuals with controlled diseases, and individuals in special populations (e.g. pregnancy, hypertension, and osteoporosis).

Graduates are employed in a wide variety of settings that include:

- medically based wellness programs
- corporate wellness programs
- strength and conditioning
- clinical rehabilitation programs such as cardiac rehabilitation
- public and private fitness clubs

In addition, the program serves as a strong foundation for students wishing to pursue advanced degrees in the field of exercise science or enter professional schools such as:

- Athletic Training
- Physical Therapy
- Occupational Therapy
- Physician Assistant
- Medical school
- Graduate degree in Exercise Science/Physiology

Admission
Application forms and other information for formal admittance to the Department of Kinesiology and Sport Science may be obtained in the department office, Room 307, Beeghly Center. This program can be completed in eight semesters if students average 16 hours per semester.

For individual semester advisement, including general education, minor, and additional requirements, see assigned departmental advisor.

For more information, visit Exercise Science - B.S. in Applied Science (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/exercise-science-major/).

The following are KSS courses required in the major for this degree:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>
| Mathematics Requirement
| MATH 1513| Algebra and Transcendental Function (5 s.h.) | 5-7  |
| or MATH 1511| College Algebra                            |      |
| & MATH 1511| and Trigonometry                          |      |
| BIOL 1551| Anatomy and Physiology 1                    | 4    |
| & 1551L| and Anatomy and Physiology 1 Laboratory     |      |
| BIOL 1552| Anatomy and Physiology 2                    | 4    |
| & 1552L| and Anatomy and Physiology 2 Laboratory     |      |
| PSYC 1560| General Psychology                           | 3    |
| Social Science (1 Course)                              | 3    |
| FNUT 1551| Normal Nutrition                             | 3    |
### Bachelor of Science in Applied Science in Exercise Science

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Code</th>
<th>Description</th>
<th>Semester Hours</th>
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<td><strong>Major Requirements</strong></td>
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<tr>
<td>KSS 1595  Introduction to Kinesiology and Sport</td>
<td>KSS 1595</td>
<td>Science (FYE course)</td>
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<tr>
<td>KSS 1559  Aerobic Conditioning Activities</td>
<td>KSS 1559</td>
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<td>KSS 1560  Resistance Training</td>
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<td>KSS 1500 Activity Elective</td>
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<td>KSS 2605  Sports First Aid and Injury Prevention</td>
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<td>KSS 2625  Pedagogical Aspects of Exercise Science</td>
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<td>KSS 3700  Exercise Evaluation and Testing</td>
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<td>KSS 3705  Statistics Research in Exercise Science</td>
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<tr>
<td>KSS 3770  Physiology of Exercise</td>
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<td>KSS 3710L Physiology of Exercise Laboratory</td>
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<td>KSS 3720  Kinesiology and Applied Anatomy</td>
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<td>KSS 3730  Exercise Prescription</td>
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<td>KSS 3760  Strength Training and Conditioning</td>
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<td>KSS 4805  Administration of Exercise Programs</td>
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<td>KSS 4810  Clinical Exercise Testing and Prescription</td>
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<td>KSS 4875  Exercise Counseling and Behavioral Strategies</td>
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<td>KSS 4880  Internship</td>
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<td>PHYS 1506 Physics for Health Care</td>
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<td>CHEM 1515 General Chemistry 1</td>
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**Total Semester Hours: 120-128**

### Year 1

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<td>YSU 1500</td>
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<td>Aerobic Conditioning Activities</td>
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<td>BIOL 1551</td>
<td>Anatomy and Physiology 1</td>
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<td>and Anatomy and Physiology 2 Laboratory</td>
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**Year 2

<table>
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<td>CHEM 1515</td>
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<td></td>
<td>&amp; 1515L</td>
<td>and General Chemistry 1 Laboratory</td>
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<td>PSYC 1560</td>
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<tr>
<td>Spring</td>
<td>KSS Activity Elective</td>
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</tr>
</tbody>
</table>

**Learning Outcomes**

The student learning outcomes for the BSAS in exercise science are as follows:

1) Students will demonstrate knowledge and skills in health, fitness and performance assessment.

2) Students will demonstrate skills in risk factor and health risk identification and the ability to prescribe and implement exercise safely in healthy individuals, special populations (i.e. older adults) and individuals with controlled cardiovascular, pulmonary, and metabolic diseases and other clinical populations.

3) Students will demonstrate competency in effectively educating, exercise counseling and using behavioral strategies in individuals regarding lifestyle modification.

4) Students will demonstrate competency in the legal and professional tasks related to the field.

5) Students will demonstrate knowledge of implementing management policies related to the field.
# Bachelor of Science in Applied Science Exercise Science - Graduate Track

**Program Director:** Garrett Kellar (ggkellar@ysu.edu)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
<td></td>
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</tr>
<tr>
<td>YSU 1500 or SS 1500 or HONR 1500</td>
<td>Success Seminar or Strong Start Success Seminar or Intro to Honors</td>
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<td><strong>General Education Requirements</strong></td>
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**Total Semester Hours** 122-125

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1 Not required for MAT at YSU.

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**Semester Hours** 17

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YSU 2021-2022 Undergraduate Catalog 395
Bachelor of Science in Applied Science Exercise Science - MAT Track

Program Director: Garrett Kellar (ggkellar@ysu.edu)

### Standard Curriculum:

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**Total Semester Hours:** 120-123

**MAT Accelerated Program**

**CIM Four-Year Plan**

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**Requires an additional 60 credit hours during the senior year upon acceptance to the MAT program**
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### Spring

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<th>COURSE</th>
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<tbody>
<tr>
<td>BIOL 3730</td>
<td>Human Physiology</td>
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<td>BIOL 3730L</td>
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<td>FNUT 1551</td>
<td>Normal Nutrition</td>
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<tr>
<td>KSS 3720</td>
<td>Kinesiology and Applied Anatomy</td>
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<td>KSS 2605</td>
<td>Sports First Aid and Injury Prevention</td>
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<td>KSS 3705</td>
<td>Statistics Research in Exercise Science</td>
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### Year 3

#### Fall

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<td>KSS 3710</td>
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<td>KSS 3710L</td>
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<td>KSS 3730</td>
<td>Exercise Testing and Prescription 2</td>
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<td>Exercise Counseling and Behavioral Strategies</td>
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#### Spring

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<tr>
<td>KSS 3760</td>
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<td>BIOL 3705 &amp; 3705L</td>
<td>Introduction to Human Gross Anatomy and Introduction to Human Gross Anatomy Laboratory</td>
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### Year 4

#### Fall

Graduate level courses will begin in year four

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<tbody>
<tr>
<td>MAT 6908</td>
<td>Functional Human Gross Anatomy</td>
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<tr>
<td>MAT 6900</td>
<td>Basic Athletic Training Laboratory</td>
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<td>MAT 6910</td>
<td>Clinical Practicum 1</td>
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<td>MAT 6915</td>
<td>Evaluation and Management of Lower Extremity Injuries</td>
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<tr>
<td>MAT 6920</td>
<td>Therapeutic Modalities</td>
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<td>MAT 6925</td>
<td>Evaluation and Management of Upper Extremity Injuries</td>
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<tr>
<td>MAT 6930</td>
<td>Clinical Practicum 2</td>
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<tr>
<td>MAT 6935</td>
<td>Athletic Training Organization and Administration</td>
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<td><strong>Students receive BSAS at end of year four.</strong></td>
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### Year 5

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<td>MAT 6905</td>
<td>Psychosocial Aspects of Athletic Injuries</td>
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<td>MAT 6950</td>
<td>Evidence-Based Practice/Research</td>
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<td>MAT 6965</td>
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<td>Therapeutic Exercise</td>
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<td>General Medical Conditions</td>
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### Minor in Wellness

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<td>FNUT 1551</td>
<td>Normal Nutrition</td>
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<td>KSS 1590</td>
<td>Foundations of Fitness</td>
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<td>PHLT 1568</td>
<td>Healthy Lifestyles</td>
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<td>KSS 2605</td>
<td>Sports First Aid and Injury Prevention</td>
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<td>KSS 4875</td>
<td>Exercise Counseling and Behavioral Strategies</td>
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<td><strong>Choose any two KSS activity classes. These classes include but are not limited to:</strong></td>
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<td>KSS 1509</td>
<td>Meditation</td>
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<td>KSS 1552</td>
<td>Yoga</td>
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<td>KSS 1557</td>
<td>Weight Training</td>
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<td>KSS 1565</td>
<td>Self Defense</td>
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<td>KSS 1550</td>
<td>Pilates</td>
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<td>KSS 1508</td>
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<td>Community Health</td>
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<td>FNUT 5862</td>
<td>Food and Culture</td>
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<td>AHLT 5840</td>
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### Bachelor of Arts in Gerontology

#### Program Director

Dr. Daniel Van Dussen  
(330) 941-1683  
djvandussen@ysu.edu

#### Overview

Gerontology is the interdisciplinary study of aging and is a rapidly growing field. The gerontology major prepares the students for a career in the field of aging. Since aging is a multifaceted, complex phenomenon, an interdisciplinary training in gerontology will give students an edge in working with the aging population.

The field of aging provides diverse occupational opportunities in health professions, non-profit organizations, recreation and leisure, for-profit businesses, education, research, government, and service providers. Settings include community, human service and religious organizations, government agencies, health and long-term care facilities, retirement communities, academic and research settings, business, industry, legal, and professional organizations.
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<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
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<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td><strong>General Education Requirements</strong></td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Mathematics requirement (met with MATH 2623)</td>
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<td><strong>Some courses are categorized in more than one knowledge domain. Courses can only be used once with the GE model.</strong></td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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<td>Social and Personal Awareness (6 s.h.)</td>
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<td>GERO 3703</td>
<td>Aging and Society</td>
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<tr>
<td>GERO 3755</td>
<td>Theories of Gerontology</td>
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<td>GERO 3759</td>
<td>Physical Change and Aging</td>
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<td>GERO 4821</td>
<td>Internship in Gerontology</td>
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<td>Research Methods</td>
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<td>Capstone in Gerontology</td>
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<td>FNUT 3720</td>
<td>Nutrition, Health, and Aging</td>
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<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<tr>
<td>SOC 3701</td>
<td>Social Statistics</td>
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<td><strong>Select one from the following policy courses:</strong></td>
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<tr>
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<tr>
<td>POL 3717</td>
<td>Health Care Policy</td>
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<tr>
<td>SCWK 3730</td>
<td>Social Services and the Aged</td>
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<td>Diversity, Ethnicity, Inclusion Select a minimum of 9 s.h. from the following:</td>
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<td>GERO 3756</td>
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<td>Aging in Cross-Cultural Perspective</td>
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<td>FNUT 2600</td>
<td>Intermediate Foreign Language</td>
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<td><strong>Select a minimum of 9 s.h. from the following program elective courses:</strong></td>
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Elective 3
Elective 3

Semester Hours 16

Year 4
Fall
GERO 4850 Research Methods 3
GERO 4821 Internship in Gerontology 4
Elective 3
Elective 3

Semester Hours 13

Spring
SOC 4801 Later Life Issues 3
GERO 4851 Capstone in Gerontology 3
GERO 4821 Internship in Gerontology 3
Elective 3
Elective 3

Semester Hours 15

Total Semester Hours 120-122

Learning Outcomes
• Students can demonstrate understanding of the discipline of gerontology and its interdisciplinary approach to aging and society (Disciplinary Knowledge).
• Students can explain the diversity and complexity of aging in our society.
• Students can explain theories, fundamental principles, theories, and core concepts of gerontology.
• Students can assess the scientific process including various qualitative and quantitative methods. Students can synthesize theory and methods by completing an original empirical research project.

Bachelor of Science in Applied Science in Long Term Care Administration

Program Director
Dr. Daniel Van Dussen
(330) 941-1683
djvandussen@ysu.edu

Overview
The Bachelor of Science in Applied Science degree in Long-Term Care Administration prepares students to become specialized, self-critical, accountable administrators in long-term care facilities. Facilities may include home and community-based care, assisted living, nursing homes, hospices, and related health care industries.

Students must complete all required coursework for the university and major and have:
• an overall GPA of 2.25
• a "C" or better in all courses in the major
• 1000 hours in an approved internship
• 48 hours of upper-division courses
• 130-132 hours of coursework overall

A minor is not necessary for this major and the requirements for the 21-semester hour Certificate in Applied Gerontology are fulfilled within the major.
Bachelor of Science in Applied Science in Long-Term Care Administration Completion

Program Director
Dr. Daniel Van Dussen
(330) 941-1683
djvandussen@ysu.edu

Overview
The Bachelor of Science in Applied Science degree in Long-Term Care Administration prepares students to become specialized, self-critical, accountable administrators in long-term care facilities. Facilities may include home and community-based care, assisted living, nursing homes, hospices, and related health care industries.

There are two options for completion of this degree. The traditional option is a four-year BSAS degree.

The second option is a 64 s.h. degree completion program. Students must enroll at Youngstown State University and transfer the required courses within
the major and general education requirements. The remainder of the courses are offered online and will satisfy the final two years of the BSAS degree (64 s.h.).

Students must complete all required coursework for the university and major and have:

- an overall GPA of 2.25
- a "C" or better in all courses in the major
- 1000 hours in an approved internship
- 48 hours of upper-division courses
- 129 hours of coursework overall

A minor is not necessary for this major and the requirements for the 21-semester hour Certificate in Applied Gerontology are fulfilled within the major.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>Psychology Coursework (3 s.h.)</td>
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<tr>
<td>PSYC 3757</td>
<td>Adult Development</td>
<td>3</td>
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<tr>
<td>Support Coursework Sociology (4 s.h.)</td>
<td></td>
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<tr>
<td>SOC 3701</td>
<td>Social Statistics</td>
<td>4</td>
</tr>
<tr>
<td>Gerontology Coursework (39 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERO 3703</td>
<td>Aging and Society</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3757</td>
<td>Aging and Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>or SCWK 3730</td>
<td>Social Services and the Aged</td>
<td></td>
</tr>
<tr>
<td>GERO 3745</td>
<td>Sociology of Health, Illness, and Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3760</td>
<td>Sociology of Dementia</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3761</td>
<td>Elder Crimes - Elder Justice</td>
<td>3</td>
</tr>
<tr>
<td>SOC 4801</td>
<td>Later Life Issues</td>
<td>3</td>
</tr>
<tr>
<td>GERO 4821</td>
<td>Internship in Gerontology</td>
<td>12</td>
</tr>
<tr>
<td>GERO 4850</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>GERO 4851</td>
<td>Capstone in Gerontology</td>
<td>3</td>
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<tr>
<td>Business &amp; Technology Coursework (34 s.h.)</td>
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<tr>
<td>Students must have overall 2.5 GPA to register for upper division coursework in Williamson College of Business</td>
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<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
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<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3720</td>
<td>Business Finance</td>
<td>3</td>
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<tr>
<td>Communications Coursework (6 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CMST 3756</td>
<td>Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>Medical Professions, Nursing &amp; Allied Health Coursework (12 s.h.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FNUT 3720</td>
<td>Nutrition, Health, and Aging</td>
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<tr>
<td>AHLT 4808</td>
<td>Environmental Health Concerns</td>
<td>3</td>
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<tr>
<td>Minimum of 129 s.h.</td>
<td>for degree, the final 64 s.h. for the online degree completion track</td>
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<td>Total Semester Hours</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
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<tr>
<td>Fall</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 3760</td>
<td>Sociology of Death and Dying</td>
<td>3</td>
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<tr>
<td>PSYC 3757</td>
<td>Adult Development</td>
<td>3</td>
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<tr>
<td>GERO 3703</td>
<td>Aging and Society</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3757</td>
<td>Aging and Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>or SCWK 3730</td>
<td>Social Services and the Aged</td>
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<td>Semester Hours</td>
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<tr>
<td>Spring</td>
<td></td>
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</tr>
<tr>
<td>CMST 3756</td>
<td>Interviewing</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate in Applied Gerontology

Program Director: Dr. Daniel Van Dussen (330) 941-1683 or djvandussen@ysu.edu

Students desiring to pursue the Certificate in Applied Gerontology must complete the following required core and elective courses. Please note: students must also complete required prerequisites to the upper division courses.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>Required Courses</td>
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</tr>
<tr>
<td>GERO 3703</td>
<td>Aging and Society</td>
<td>3</td>
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<tr>
<td>SOC 4801</td>
<td>Later Life Issues</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3757</td>
<td>Adult Development</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3759</td>
<td>Physical Change and Aging</td>
<td>3</td>
</tr>
<tr>
<td>Field Work in Gerontology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GERO/SOC 4821</td>
<td>Internship in Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
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<tr>
<td>Select two of the following:</td>
<td></td>
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<tr>
<td>GERO 3745</td>
<td>Sociology of Health, Illness, and Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3755</td>
<td>Theories of Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3758</td>
<td>Long-Term Care</td>
<td>3</td>
</tr>
<tr>
<td>GERO 3757</td>
<td>Aging and Social Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3759</td>
<td>Sociology of Dementia</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3760</td>
<td>Sociology of Death and Dying</td>
<td>3</td>
</tr>
<tr>
<td>GERO 4804</td>
<td>Family, Health, and Aging</td>
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<tr>
<td>SOC 6905</td>
<td>Social Gerontology</td>
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<tr>
<td>ANTH 3790</td>
<td>Aging in Cross-Cultural Perspective</td>
<td>3</td>
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<td>FNUT 3720</td>
<td>Nutrition, Health, and Aging</td>
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<tr>
<td>POL 3717</td>
<td>Health Care Policy</td>
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<tr>
<td>KSS 4870</td>
<td>Exercise and Aging for Health Professions</td>
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<td>GERO 4821</td>
<td>Internship in Gerontology</td>
<td>3</td>
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<tr>
<td>SCWK 3730</td>
<td>Social Services and the Aged</td>
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<tr>
<td>PSYC 4857</td>
<td>Biopsychological Aspects of Health and Aging</td>
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<tr>
<td>ECON 1504</td>
<td>Economics of Aging</td>
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<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
<td>3</td>
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Note: The Certificate in Applied Gerontology comprises 21 semester hours. Students must maintain a "C" or better in all course work, must satisfy all prerequisites, and cannot take a course on a "CR/NC" basis.

**Minor in Gerontology**

Program Director: Dr. Daniel Van Dussen (330) 941-1683 or djvandussen@ysu.edu

<table>
<thead>
<tr>
<th><strong>COURSE</strong></th>
<th><strong>TITLE</strong></th>
<th><strong>S.H.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>GERO 1501</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>or SOC 1500</td>
<td>Introduction to Sociology</td>
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Select five of the following:

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<tr>
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<th><strong>TITLE</strong></th>
<th><strong>S.H.</strong></th>
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</thead>
<tbody>
<tr>
<td>GERO 3703</td>
<td>Aging and Society</td>
<td></td>
</tr>
<tr>
<td>GERO 3755</td>
<td>Theories of Gerontology</td>
<td></td>
</tr>
<tr>
<td>GERO 3756</td>
<td>Aging and Ethnicity</td>
<td></td>
</tr>
<tr>
<td>GERO 3757</td>
<td>Aging and Social Policy</td>
<td></td>
</tr>
<tr>
<td>SOC 4801</td>
<td>Later Life Issues</td>
<td>15</td>
</tr>
<tr>
<td>GERO 4804</td>
<td>Family, Health, and Aging</td>
<td></td>
</tr>
<tr>
<td>GERO 4821</td>
<td>Internship in Gerontology</td>
<td></td>
</tr>
<tr>
<td>SOC 3759</td>
<td>Sociology of Dementia</td>
<td></td>
</tr>
<tr>
<td>FNUT 3720</td>
<td>Nutrition, Health, and Aging</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours**: 18

**Associate of Applied Science in Hospitality Management, Event Management Track**

Mark J. Zetts, MBA
AAS- Hospitality Management Program Director
(330) 941-1784
mjzetts01@ysu.edu

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful and competent in this fast-growing field, not only in the United States but throughout the world.

The Associate of Applied Science degree articulates with the bachelor's degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Event Management track provides coursework to prepare graduates to plan leisure activities, sporting events and other celebrations from arranging food and entertainment to reserving venues and accommodations for guests.

The Restaurant and Foodservice track prepares graduates for managing restaurant or institutional food service operations.

The Hotel and Lodging track prepares graduates for careers in the lodging area of hospitality - cruise ships, resorts and hotels.

For more information, contact Mr. Mark Zetts at mjzetts01@ysu.edu or (330) 941-1784

<table>
<thead>
<tr>
<th><strong>COURSE</strong></th>
<th><strong>TITLE</strong></th>
<th><strong>S.H.</strong></th>
</tr>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>or HONR 1500</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or Intro to Honors</td>
<td></td>
</tr>
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</table>

**General Education Requirements**

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<tr>
<th><strong>COURSE</strong></th>
<th><strong>TITLE</strong></th>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from two domains: Arts and Humanities, Social Science or Natural Science (one must include a lab)

**Other Requirements**

<table>
<thead>
<tr>
<th><strong>COURSE</strong></th>
<th><strong>TITLE</strong></th>
<th><strong>S.H.</strong></th>
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</thead>
<tbody>
<tr>
<td>HMGT 1500</td>
<td>Introduction to Hospitality Professions</td>
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</tr>
<tr>
<td>FNUT 1512</td>
<td>Food Safety and Sanitation</td>
<td>1</td>
</tr>
<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3</td>
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<tr>
<td>FNUT 1553</td>
<td>Food Science and Management Principles</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 1553L</td>
<td>Food Science and Management Principles Laboratory</td>
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</tr>
<tr>
<td>HMGT 2603</td>
<td>Hospitality Managerial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>HMGT 2691</td>
<td>Hospitality Cooperative Work Experience (Permit required, see advisor. Student must sign up for permit prior to registration.)</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 3719</td>
<td>Facilities Management</td>
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<tr>
<td>HMGT 3745</td>
<td>Hospitality Marketing and Sales</td>
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</tr>
<tr>
<td>HMEC 1550</td>
<td>Human Ecology Professions</td>
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**Event Management**

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<thead>
<tr>
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<th><strong>TITLE</strong></th>
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<tbody>
<tr>
<td>FNUT 2612</td>
<td>Food Systems: Operation, Production, and Service</td>
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<tr>
<td>&amp; 2612L</td>
<td>and Food Systems: Operations, Production, and Service Laboratory</td>
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<tr>
<td>HMGT 4846</td>
<td>Event Management</td>
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</tr>
<tr>
<td></td>
<td>60 s.h. required for the degree - select elective(s)</td>
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</table>

**Total Semester Hours**: 59-61

Some courses are offered only once a year; see your advisor for proper prerequisites and sequence of courses. This curriculum articulates perfectly with the Bachelor of Science program in Applied Science in Hospitality Management. Some alternative coursework, including ACCT, MGT, and MKTG courses, may be taken in the Williamson College of Business Administration where a minimum GPA of 2.5 is required.

**Year 1**

<table>
<thead>
<tr>
<th><strong>COURSE</strong></th>
<th><strong>TITLE</strong></th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>or Intro to Honors</td>
<td></td>
</tr>
<tr>
<td>or SS 1500</td>
<td>or Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or Fundamentals of Management</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or Intro to Honors</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or写作1</td>
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<td></td>
<td>or Writing 2</td>
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<td>or Fundamentals of Management</td>
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**Semester Hours**: 16-17

<table>
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<tr>
<th><strong>COURSE</strong></th>
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<th><strong>S.H.</strong></th>
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</thead>
<tbody>
<tr>
<td>FNUT 2610</td>
<td>Organization and Management (GPA &gt; 2.5 required for MGT 3725)</td>
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</tr>
<tr>
<td>or MGT 3725</td>
<td>for MGT 3725</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or Fundamentals of Management</td>
<td>3</td>
</tr>
</tbody>
</table>
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The Associate of Applied Science degree articulates with the bachelor’s degree. The Bachelor of Science in Applied Science program exposes students to advanced management concepts in lodging, food and beverage, or event management.

The Hotel and Lodging track provides coursework to prepare graduates to manage all aspects of providing accommodations and lodging services for guests.

## Learning Outcomes

At the completion of the hospitality management program, graduates will be able to:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation, and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.
- Analyze legal, ethical, and socio-political considerations affecting organizations to make management decisions.
- Demonstrate use of accepted accounting practice and sound financial management.

### Associate of Applied Science in Hospitality Management, Hotel and Lodging Management Track

Mark J. Zetts, MBA
AAS- Hospitality Management Program Director
330-941-1784
mjzetts01@ysu.edu

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The hospitality management programs provide students with the knowledge and skills needed to be successful
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At the completion of the hospitality management program, graduates will be able to:

- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development, and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.
- Analyze legal, ethical, and socio-political considerations affecting organizations to make management decisions.
- Demonstrate use of accepted accounting practice and sound financial management.
Scholarships
The Army ROTC program offers four, three, and two year scholarships to those that qualify (subject to availability). Scholarships include full tuition, a monthly stipend of $300 - $500 and a $1200 book allowance. These scholarships incur a military obligation.

Youngstown State University Army ROTC also offers various alumni and endowment scholarships which are offered to students without any military obligation. Students interested in these scholarships can apply through the Army ROTC Department.

Opportunities for Veterans/Junior ROTC Graduates
Military Veterans and students with three years of Junior ROTC (high school), are eligible for Basic Course class credit (first two years of the ROTC program). These students may be eligible to begin the ROTC program in the Advanced Course (beginning with their junior year). Check with the Military Science Department for Advanced Course requirements.

Army ROTC/Army Reserve/Army National Guard
Students can further broaden their college experience and earn extra income by combining ROTC with service in the Army Reserve or Army National Guard through the Simultaneous Membership Program (SMP). Students who qualify may join the Army Reserve or Army National Guard unit as an Officer trainee and simultaneously enroll in the Army ROTC Advanced Course. In addition to ROTC allowances for contracted students, SMP participants are paid for their Reserve or Guard drills and annual summer training sessions. Contact the Military Science Department for details.

Leadership Laboratory
The leadership laboratory is a practical exercise period for both Basic and Advanced courses. It provides hands-on experience in practical military skills and the development of essential characteristics of leadership through progressive evaluation and counseling:

<table>
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<th>TITLE</th>
<th>S.H.</th>
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<tbody>
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<td>MSCI 1530L</td>
<td>Basic Course Leadership Laboratories</td>
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<td>MSCI 2630L</td>
<td>Basic Course Leadership Laboratories</td>
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<tr>
<td>MSCI 3730L</td>
<td>Advanced Course Leadership Laboratories</td>
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<tr>
<td>MSCI 4830L</td>
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</tr>
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</table>

Extra-Curricular Activities
Cadets have numerous opportunities to participate in ROTC activities outside the classroom. During YSU home football games, YSU Cadets raise the national colors, and mark every Penguin score by firing the cannon and doing push-ups for the fans. Additionally, the Color Guard Team provides color guards for university and community events. Army ROTC Cadets also have the opportunity to participate in field training exercises at Camp Ravenna Joint Military Training Center which tests their land navigation and tactical leadership skills. Cadets also participate in Combat Water Survival Training, formal military banquets and ceremonies, and weekly "hands-on" leadership labs.

Cadets may have the opportunity to earn the German Armed Forces Badge for Military Proficiency by completing a fitness test, pistol qualification, demonstrating proficiency in first aid, and completing a road march. Cadets who qualify may also participate in the annual Army Ten Miler in Washington, DC, or honor fallen soldiers and their families at the Mountain Man Memorial March in Gatlinburg, TN.

For more information contact the Department of Military Science:

Email: armyrotc@ysu.edu
Phone: 330.941.3205
Instagram: ysu_rotc
Facebook: YSU Army ROTC (https://www.facebook.com/YSUArmyROTC/)

visit the Department of Military Science

Majors
- Military Science Four Year Program (p. 406)
- Military Science Two Year Program (p. 407)

Minors
- Minor in Military Science (p. 407)
- Minor in Military Science History Track (p. 407)
- Minor in Military Science Political Science Track (p. 407)

MSCI 1510 Introduction to ROTC 1 s.h.
Team and individual study and activities in basic drill, physical fitness, rappelling, leadership recreation course, first aid, making presentations, and basic marksmanship. Fundamental concepts of leadership in a profession in both classroom and outside laboratory environments. One hour lecture and Leadership Laboratory MSCI 1530L per week.

MSCI 1520 Introduction to Leadership 1 s.h.
Learn/apply principles of effective leading. Reinforce self confidence through participation in physically and mentally challenging exercises. Develop communication skills to improve individual performance and group interaction. Relate organizational ethical values to the effectiveness of a leader. One hour lecture and Leadership Laboratory MSCI 1530L per week.

MSCI 1530L Basic Course Leadership Laboratories 0 s.h.
Practical exercises with different roles for students at different levels in the program. Build self confidence, and team-building leadership skills that can be applied throughout life. Open only to (and required of) students in the respective MSCI courses. For MSCI 1510 and MSCI 1520 it is MSCI 1530L.

MSCI 2610 Self Team Development 2 s.h.
Apply ethics-based leadership skills that develop individual abilities and contribute to the building of effective teams. Develop skills in oral presentations, writing concisely, planning of events, coordination of group efforts, advanced first aid, land navigation, and basic military tactics. Fundamentals of ROTC's Leadership Development Program. Two hours lecture and leadership lab MSCI 2630L per week.

MSCI 2620 Individual/Team Military Tactics 2 s.h.
Introduction to individual and team aspects of military tactics in small unit operations. Includes use of radio communications, safety assessments, movement techniques, planning for team safety/security and methods of pre-execution checks. Practical exercises with upper-division ROTC students. Techniques for training others. Two hours lecture and leadership lab MSCI 2630L per week.

MSCI 2630L Basic Course Leadership Laboratories 0 s.h.
Practical exercises with different roles for students at different levels in the program. Build self confidence, and team-building leadership skills that can be applied throughout life. Open only to (and required of) students in the respective MSCI courses. For MSCI 2610 and MSCI 2620 it is MSCI 2630L.

MSCI 2640 Basic ROTC Summer Camp Challenge 3 s.h.
A five-week summer camp conducted at an army post. The student receives pay. Travel, lodging, and most meal costs are defrayed by the Army. The environment is rigorous, and similar to Army Basic Training. No military obligation is incurred.

MSCI 2650 American Military Operations 2 s.h.
American Military Operations teaches the development and implementation of United States Army doctrine, philosophy, strategy, tactics, logistics, leadership, and battle and campaign analysis in an historical context.
MSCI 3710  Leading Small Organizations 1  3 s.h.
Practical opportunities to lead small groups and lead again in situations of increasing complexity. Uses small unit tactics and opportunities to plan and conduct training for lower-division students both to develop such skills and as vehicles for practicing leading. Three hours lecture and leadership lab MSCI 3730L per week.
Prereq.: Permission of department chairperson.

MSCI 3720  Leading Small Organizations 2  3 s.h.
Continues methodology of MSCI 3710. Analyze tasks; prepare written/oral guidance for team to accomplish tasks. Delegate tasks and supervise. Plan for the unexpected in organizations under stress. Apply lessons from leadership studies. Examine importance of ethical decision making in setting a positive climate that enhances team performance. Three hours lecture and leadership lab MSCI 3730L per week.
Prereq.: Permission of department chairperson.

MSCI 3730L  Advanced Course Leadership Laboratories 0 s.h.
Practical exercises with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of training and activities. Open only to students in the respective MSCI courses. For MSCI 3710 and MSCI 3720 it is MSCI 3730L.

MSCI 3740  ROTC Advanced Camp 4 s.h.
A five-week camp conducted at an Army post. Student receives pay. Travel, lodging and meal costs are defrayed by the Army. The Advanced Camp environment is structured and demanding, stressing leadership at small unit levels under varying conditions. Individual leadership and basic skills performance are evaluated.

MSCI 3750  Individual Study 1-3 s.h.
The individual study of a particular military problem or review of the literature relating to a specific military problem. May be repeated with a different problem for a maximum of 3 s.h.
Prereq.: Six s.h. of Military Science and consent of the instructor.

MSCI 4810  Leadership Challenges and Goal-Setting 3 s.h.
Plan, conduct and evaluate activities of the ROTC cadet organization. Articulate goals, put plans into action. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people and manage resources. Learn/apply various Army policies and programs. Two hours lecture and leadership lab MSCI 4830L per week.
Prereq.: Permission of department chairperson.

MSCI 4820  Transition to Lieutenant 3 s.h.
Continues the methodology from MSCI 4810. Analyze tasks; prepare written/oral guidance for team to accomplish tasks. Delegate tasks and supervise. Plan for the unexpected in organizations under stress. Apply lessons from leadership studies. Examine importance of ethical decision making in setting a positive climate that enhances team performance. Three hours lecture and leadership lab MSCI 4830L per week.
Prereq.: Permission of department chairperson.

MSCI 4830L  Advanced Course Leadership Laboratories 0 s.h.
Practical exercises with different roles for students at different levels in the program. Involves leadership responsibilities for the planning, coordination, execution, and evaluation of training and activities. Open only to students in the respective MSCI courses. For MSCI 4810 and MSCI 4820 it is MSCI 4830L.

Military Science Four-Year Program

The four-year Army ROTC program is divided into two parts:

- the Basic Course
- the Advanced Course

The Basic Course is usually taken during the freshman and sophomore years:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>MSCI 1510</td>
<td>Introduction to ROTC</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 1520</td>
<td>Introduction to Leadership</td>
<td>1</td>
</tr>
<tr>
<td>MSCI 2610</td>
<td>Self Team Development</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 2620</td>
<td>Individual/Team Military Tactics</td>
<td>2</td>
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<tr>
<td>MSCI 3710</td>
<td>Leading Small Organizations 1</td>
<td>3</td>
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<tr>
<td>MSCI 3710</td>
<td>Leading Small Organizations 1</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 3720</td>
<td>Leading Small Organizations 2</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 4810</td>
<td>Leadership Challenges and Goal-Setting</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 4820</td>
<td>Transition to Lieutenant</td>
<td>3</td>
</tr>
</tbody>
</table>

No military commitment is incurred during this time. After completing the Basic Course, students who have demonstrated officer potential and meet physical and scholastic standards are eligible to enroll in the Advanced Course.

**Advance Course**

**Junior and Senior Years**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MSCI 3710</td>
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<tr>
<td>MSCI 3720</td>
<td>Leading Small Organizations 2</td>
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</tr>
<tr>
<td>MSCI 4810</td>
<td>Leadership Challenges and Goal-Setting</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 4820</td>
<td>Transition to Lieutenant</td>
<td>3</td>
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</table>

**ROTC Leader Development and Assessment Course (LDAC)**

Summer between MS III and MS IV (junior and senior years)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSCI 3740</td>
<td>ROTC Advanced Camp</td>
<td>4</td>
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</tbody>
</table>

**Total Semester Hours** 22

MSCI 3740 ROTC Advanced Camp is conducted at Fort Knox, Kentucky, the summer between the Cadet’s junior and senior year. Students put into practice the leadership and tactical skills they have acquired in the classroom with other Cadets from across the country.

All students in the Advanced Course receive uniforms and a monthly stipend.

Before entering the Advanced Course, an individual signs a contract that certifies an understanding of the service obligation. This obligation may be fulfilled in a variety of ways depending on the individual's personal preference and the needs of the Army at the time of commissioning.

Scholarship graduates incur an eight-year obligation and are required to serve one of the following obligations:

- four years on active duty and four years in an Army Reserve
- six years in National Guard unit then two years in the Individual Ready Reserve (IRR)
- three years on active duty and five years in the IRR
- four years on active duty and four years in the IRR
- eight years in Army Reserve or National Guard unit

Non-scholarship graduates are required to serve one of the following obligations:

- two years on active duty and six years in the IRR
- three years on active duty and five years in the IRR
- four years on active duty and four years in the IRR
- six years in an Army Reserve or National Guard unit and two years in the IRR
- eight years in the IRR

All commissionees incur a service obligation of eight years with service being either full-time active duty or part-time in the Army Reserve or Army National Guard. The mix of active and reserve duty is determined by the needs of the Army, the Cadet's performance, and the type of contract the Cadet signed (scholarship or non-scholarship, guaranteed Reserve Forces Duty or participation in the Simultaneous Membership Program of the Army Reserve/Army National Guard).
Military Science Two-Year Program

Army ROTC - Two-Year Program

There is a two-year Army ROTC program for students who have two years remaining to complete their degree program. This may include transfer students, junior college students, graduate students and any student that has not participated in the Military Science Basic Course (first two years of the program).

By attending the 31 day Army ROTC Basic Camp at Fort Knox, Kentucky, these students are eligible to enter the Advanced Course (junior and senior year). Students attend this course during the summer following their sophomore year (before the start of their junior year). Students desiring to start ROTC in their junior year should contact the Military Science Department for eligibility to attend Basic Camp at Fort Knox, Kentucky.

Students entering the Advanced Course (in their junior year) sign a contract which outlines their service obligation following graduation from YSU. This obligation may be fulfilled in a variety of ways (active duty, Army Reserves, Army National Guard) depending on the individual's personal preference and the needs of the Army at the time of commissioning. Contact the department of Military Science to discuss contract details.

Department of Military Science

Phone: 330.941.3205
Email: armyrotc@ysu.edu

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MSCI 1510</td>
<td>Introduction to ROTC</td>
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<tr>
<td>MSCI 1520</td>
<td>Introduction to Leadership</td>
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</tr>
<tr>
<td>MSCI 2610</td>
<td>Self Team Development</td>
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<td>MSCI 2620</td>
<td>Individual/Team Military Tactics</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 3710</td>
<td>Leading Small Organizations 1</td>
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</tr>
<tr>
<td>MSCI 3720</td>
<td>Leading Small Organizations 2</td>
<td>3</td>
</tr>
<tr>
<td>MSCI 4810</td>
<td>Leadership Challenges and Goal-Setting</td>
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<td>MSCI 4820</td>
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<td>Total Semester Hours</td>
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Minor in Military Science

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<td>Introduction to Leadership</td>
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<td>MSCI 1530L</td>
<td>Basic Course Leadership Laboratories</td>
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<tr>
<td>MSCI 1520</td>
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</tr>
<tr>
<td>MSCI 2610</td>
<td>Self Team Development</td>
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<tr>
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<td>MSCI 3730L</td>
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<tr>
<td>MSCI 4830L</td>
<td>Advanced Course Leadership Laboratories</td>
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<td>Transition to Lieutenant</td>
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<td>Advanced Course Leadership Laboratories</td>
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<td>MSCI 3740</td>
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<tr>
<td>Total Semester Hours</td>
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Minor in Military Science History Track

<table>
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<tr>
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<tr>
<td>MSCI 1520</td>
<td>Introduction to Leadership</td>
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<tr>
<td>MSCI 1530L</td>
<td>Basic Course Leadership Laboratories</td>
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<tr>
<td>MSCI 2610</td>
<td>Self Team Development</td>
<td>2</td>
</tr>
<tr>
<td>MSCI 2620</td>
<td>Individual/Team Military Tactics</td>
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<tr>
<td>MSCI 2630L</td>
<td>Basic Course Leadership Laboratories</td>
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<tr>
<td>POL 1550</td>
<td>Introduction to Political Science</td>
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<tr>
<td>HIST 2601</td>
<td>American Military History</td>
<td>3</td>
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<tr>
<td>History Courses</td>
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<tr>
<td>HIST 2606</td>
<td>Turning Points in United States History 2</td>
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<td>Choose two of the following history courses:</td>
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<td>HIST 3740</td>
<td>The Vietnam War</td>
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<td>HIST 3762</td>
<td>The Second World War</td>
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<td>HIST 3742</td>
<td>Diplomatic History of the United States 2</td>
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Minor in Military Science Political Science Track

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<td>MSCI 1510</td>
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<td>MSCI 1520</td>
<td>Introduction to Leadership</td>
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<tr>
<td>MSCI 1530L</td>
<td>Basic Course Leadership Laboratories</td>
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<tr>
<td>MSCI 2610</td>
<td>Self Team Development</td>
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<tr>
<td>MSCI 2620</td>
<td>Individual/Team Military Tactics</td>
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<tr>
<td>MSCI 2630L</td>
<td>Basic Course Leadership Laboratories</td>
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<tr>
<td>POL 1550</td>
<td>Introduction to Political Science</td>
<td>3</td>
</tr>
<tr>
<td>HIST 2601</td>
<td>American Military History</td>
<td>3</td>
</tr>
<tr>
<td>Political Science Courses</td>
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<tr>
<td>Choose three courses. Please note the prerequisites for POL 3741 and POL 3763.</td>
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<tr>
<td>POL 2640</td>
<td>Contemporary World Governments</td>
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<tr>
<td>POL 2660</td>
<td>International Relations</td>
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<tr>
<td>POL 3741</td>
<td>Russia and China: From Revolution to Reform</td>
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<tr>
<td>POL 3763</td>
<td>International Law</td>
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<tr>
<td>Total Semester Hours</td>
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<td>21</td>
</tr>
</tbody>
</table>

Centofanti School of Nursing

(330) 941-3293

The YSU James and Coralie Centofanti School of Nursing offers a Bachelor of Science in Nursing (BSN) degree and a School Nurse Licensure Certificate Program. Graduate programs leading to a Master of Science in Nursing (MSN) degree and a Doctor of Nursing Practice (DNP) degree are also available. Refer to the Graduate Catalog for details.
Bachelor of Science in Nursing Program

Two programs are offered: Entry-level (pre-licensure) and an RN-BSN Online Completion program.

The Entry-level BSN program is a four-year program for new or transfer students entering YSU without a previous degree or diploma in nursing. The program prepares students for the registered nurse role. Graduates are eligible to sit for the NCLEX-RN examination for licensure as a Registered Nurse.

The RN-BSN Online Completion program is offered for students who are currently licensed as registered nurses and are returning to YSU to complete requirements for a baccalaureate degree. After completing prerequisites, the RN-BSN Online Completion program takes four semesters or more on a part-time basis, depending on the student’s academic background. Admission criteria and more details are available under the RN-BSN Online Completion program tab or at https://ysu.edu/academics/bitonte-college-health-and-human-services/online-nursing-rn-bsn-completion-program/.

Accreditation

The BSN program is fully approved by the:

Ohio Board of Nursing
17 S. High Street, Suite 400
Columbus, Ohio 43215
phone: (614) 466-3947

The BSN program is fully accredited by:

Commission on Collegiate Nursing Education (CCNE)
655 K Street, NW, Suite 750
Washington, DC 20001
phone: (202) 887-6791

Accreditation Commission for Education in Nursing (ACEN)
3390 Peachtree Road NE, Suite 1400
Atlanta, GA 30326
phone: (404) 975-5000

Admission Requirements for the Entry-level Bachelor of Science in Nursing Program

Admission into the entry-level BSN degree program is restricted. Entry-level students complete admission requirements as pre-nursing majors before formal admission to the BSN program. Admission to the University provides these students with the opportunity to complete a core of pre-nursing courses after which they may apply and compete for a position in the entry-level Nursing Program. Admission for the entry-level BSN program is held only once a year for Fall registration. Students who are scheduled to complete all admission requirements by the end of spring semester are eligible to apply for fall semester admission. Students who meet all requirements are encouraged to apply however attainment of the minimum GPA does not guarantee admission to the program due to a large applicant pool.

Guaranteed Admission Eligibility

First-time freshman students who score a Composite ACT of 24 or an equivalent combined SAT score of 1190 and have an accumulative GPA of 3.4 or above, are guaranteed a position in the entry level BSN program. To maintain this guaranteed position in the entry-level BSN program, these students must maintain a pre-nursing GPA of 3.2 with at least a "C" in all required pre-nursing courses (with no course repetitions). In addition to these grade requirements, all other admission requirements must be met. Students who do not meet the criteria for maintaining their guaranteed position, but meet the general requirements for admission into the entry-level BSN program, will be considered for Fall admission with all other nursing applicants.

Late Admission Eligibility

Students who are scheduled to complete all admission requirements by the end of summer semester are eligible to apply for late admission. Late admission applicants will be considered if, and only if, there are program seats available after all earlier submitted applicants have been considered.

Transfer Students

Applicants considered for advanced standing include transfer students who were in good standing at the previously attended nursing program and Licensed Practical Nurses (LPNs). LPN applicants must have graduated from an accredited Practical Nurse program and hold a current Practical Nurse license. A total of 11 semester hours of course credit will be given after successful completion of a clinical competency exam. Admission for advanced standing applicants is on a space available basis. Advanced standing applicants must meet all entry-level BSN Admission Requirements. Military credit will be given for electives.

Applicants for the Entry-level BSN program must meet the following minimum requirements

1. General University pre-college requirements for the Bachelor of Science degree.
2. Completion of required pre-nursing courses with a grade of "C" or better and a cumulative GPA in these courses of 3.0.
3. A cumulative GPA of 2.5 in all college course work.
4. Evidence of current CPR for Health Care Provider Certification.
5. Completed physical examination and immunization requirements.
6. Annual fingerprinting and drug screen through corporate screening for BCI and FBI criminal records check.
7. Photocopy of valid YSU ID.

Required Pre-Nursing courses for entry-level BSN students include

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>BIOL 1551</td>
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<tr>
<td>&amp; 1551L</td>
<td>and Anatomy and Physiology 1 Laboratory</td>
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<tr>
<td>BIOL 1552</td>
<td>Anatomy and Physiology 2</td>
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<tr>
<td>&amp; 1552L</td>
<td>and Anatomy and Physiology 2 Laboratory</td>
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<td>CHEM 1510</td>
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<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Hours 31

Admission to the University, meeting minimal program admission requirements, and completion of pre-nursing courses does not guarantee admission into the nursing program. Pre-nursing students are encouraged to seek advisement on a regular basis from the pre-nursing advisor in the Dr. Dominic A. and Helen M. Bitonte College of Health and Human Services Dean's office.

Enrollment in the RN-BSN Online Completion Program

Students who are currently registered nurses and seeking a BSN degree are admitted on an individual basis. RN-BSN admission is held any semester after successful completion of a clinical competency exam. Admission for advanced standing applicants is on a space available basis. Advanced standing applicants must meet all entry-level BSN Admission Requirements. Military credit will be given for electives.

See admission requirements at https://cms.ysu.edu/administrative-offices/distance-education/rn-bsn-admissions-information
Registered nurses in the RN-BSN Online Completion program must meet all of the above requirements in addition to being a registered nurse with a current license to practice in Ohio or in the RN’s home state.

Course Enrollment/Scheduling

All nursing courses except NURS 2610 Contemporary Nursing are available only to students formally admitted into the entry-level BSN program. Courses identified in the Schedule of Classes for RNs only are limited to registered nurses enrolled in the RN-BSN Online Completion program.

Many nursing courses include an off-campus clinical component. These courses are designated on the curriculum list with semester hours in parentheses. Example: NURS 3743 Professional Nursing 3 (5(3+2)). This course has three semester hours of lecture and two semester hours of clinical. Generally, one semester hour of credit is earned for each three clock hours of on-campus laboratory skills instruction and for each three off-campus clock hours of clinical instruction. The exceptions are NURS 3741 Professional Nursing 2 clinical, where it is 2.7 clock hours per semester hour and NURS 4853 Nursing Transitions clinical, where it is four clock hours per semester hour. Personal responsibility for transportation is required for travel to off-campus clinical sites.

Malpractice insurance is required for all clinical nursing experiences and is provided by the University when the student registers for the specified courses. Some risk is inherent to nursing students during their clinical education, but precautions are taken to minimize this risk.

Academic Requirements for the entry-level Bachelor of Science in Nursing Degree

For new students, the entry-level BSN program consists of 121 total semester hours; 71 semester hours are nursing courses plus 90 on-campus lab hours and 960 clinical contact hours at health care facilities and in the community.

Students are responsible for adhering to the prescribed BSN curriculum sequence including, but not limited to, course prerequisites and mandated sequencing of nursing courses. It is also the students’ responsibility to see that all graduation requirements for the BSN degree are satisfied. It is recommended that students frequently seek guidance from their nursing advisor. A copy of the BSN curriculum is available from the YSU Centofanti School of Nursing. This program can be completed in eight semesters if students adhere to a curriculum schedule of 14-17 credit hours per semester.

After admission to the program, a grade of "C" or better is mandatory for all nursing courses, required non-nursing support courses, required elective, and general education hours. Only one nursing or one non-nursing support course (BIOL 1560 Microbiology for the Health Professions and BIOL 1560L Microbiology Laboratory for Health Professions or FNUT 1551 Normal Nutrition) may be repeated. A repeated course must be successfully completed with a grade of "A", "B", or "C" and all incomplete grades must be removed before progressing in the nursing curriculum. A grade of less than "C" in a second nursing or required non-nursing support course will result in permanent removal from the nursing program.

A Bachelor of Science in Nursing degree will be granted to the student who has completed the required baccalaureate nursing curriculum with a minimum grade point average of 2.00.

The Centofanti School of Nursing reserves the right to remove a student from the program when that student’s performance in any nursing course is deemed to be unsafe as characterized by dangerous, inappropriate, irresponsible or unethical behavior. The school reserves the right to dismiss a student who, for legal, ethical, academic, emotional, or physical reasons, cannot be advised to continue in the program.

Current immunizations, CPR for Health Care Professionals certification, annual drug screen and fingerprinting, BCI and FBI criminal background checks are required of all nursing students. If the criminal record check reveals an egregious felony, the Ohio Board of Nursing will not consider the applicant for licensure. Please refer to the Ohio Board of Nursing (http://www.nursing.ohio.gov/) website for additional information. Some lesser offenses may impede student placement at a clinical site, which will affect the student’s ability to progress in the program. Random drug testing may occur periodically. Students must adhere to a dress code which includes the wearing of specific nurse’s uniform for nursing clinical courses. All policies/requirements stated in this Undergraduate Catalog and the BSN Undergraduate Handbook must be adhered to by students throughout the program.

For more information, visit the YSU Centofanti School of Nursing https://ysu.edu/academics/bitonte-college-health-and-human-services/nursing-entry-level-bsn

Director
Nancy Wagner, D.N.P., Professor, Director

Professor
Kimberly A. Ballone, D.N.P., Professor
Sheila M. Blank, D.N.P., Assistant Professor
Laura Calcagni, M.S.N., Assistant Professor
Lori Ann Fusco, D.N.P., Assistant Professor
Patricia L. Hoyson, Ph.D., Professor
Susan A. Lisko, D.N.P., Professor
Valerie Marie O’Dell, D.N.P., Professor
Nicole Olshanski, D.N.P., Assistant Professor
Molly Roche, M.S.N., Associate Professor
Cynthia M. Shields, D.N.P., Associate Professor
Mary P. Shortreed, D.N.P., Assistant Professor
Wendy Thomas, M.S.N., Assistant Professor
Amy Weaver, Ph.D., Associate Professor

Lecturer
Danielle Class, M.H.H.S., Lecturer
Randi Heasley, M.S.N., Lecturer
Nora Lipscomb, M.S.N., Lecturer
Paula McClusky, M.S.N., Lecturer
Eiryn C. McKay, M.S.N., Lecturer
Rose Mucci, M.S.N., Lecturer
Teresa Peck, M.S.N., Lecturer

Majors
- BSN for Entry-Level Students (Non-RN) (p. 411)
- BSN for RN Students (RN-BSN Online Completion) (p. 412)

Licensure
- School Nurse Licensure Program (p. 413) (post-baccalaureate)
### NURS 2610  Contemporary Nursing  3 s.h.
Concepts related to professional nursing practice including nursing as a developing profession; educational perspectives and patterns; legal and ethical accountability; economic and political aspects; health care delivery systems; and nursing management and leadership roles. Open to nursing and non-nursing majors.

### NURS 2643  Health Assessment  4 s.h.
Development of communication and assessment skills for obtaining health data from various age groups, as well as reporting and recording findings. Three hours lecture and three hours lab experience.
Prereq.: Admission to the Entry-level BSN program.
Coreq.: NURS 2643CL.

### NURS 2643L  Health Assessment Laboratory  0 s.h.
Lab experience taken with NURS 2643 Health Assessment.
Prereq.: Admission to the Entry-level BSN program.

### NURS 2645  Professional Nursing 1  8 s.h.
Applications of the nursing process for the care of clients with emphasis on health assessment, health promotion, and psychosocial and psychomotor skills. Three hours lecture, 15 hours clinical experience in a variety of settings per week.
Prereq.: NURS 2643, NURS 2610, NURS 2646 and BIOL 1560, BIOL 1560L.

### NURS 2645L  Professional Nursing 1 Laboratory  0 s.h.
Professional Nursing 1 Laboratory. 0 s.h.

### NURS 2646  Pathophysiology  4 s.h.
Concepts related to pathophysiological mechanisms of illness. Emphasis on application to nursing using the nursing process.
Prereq.: BIOL 1552/1552L and CHEM 1510/1510L or equivalent; Admission to the Entry-level BSN program.

### NURS 2650  Pharmacology  3 s.h.
Concepts of pharmacology applied to major drug classes. Emphasis on application of nursing process to drug therapy across the lifespan.
Prereq.: NURS 2646.

### NURS 3710  Nursing in the Community  5 s.h.
Nursing in the community including families in health and illness needs; culturally competent health care; teaching and learning aspects; psychosocial concepts, spirituality, and home health concepts and skills. To be taken concurrently with NURS 3710L.
Prereq.: NURS 2645/L.

### NURS 3710L  Nursing in the Community Laboratory  0 s.h.
Nursing in the Community Laboratory.

### NURS 3720  Professional Nursing  3 s.h.
Concepts related to professional nursing practice for graduates of ADN and diploma programs.
Prereq.: Valid RN Licensure.

### NURS 3725  Nursing Informatics  3 s.h.
This course explores nursing and health care informatics and its application to nursing practice and nursing education. Includes technological strategies to access, evaluate and document information and apply skills to patient care in the nursing profession. Development of computer skills to be successful in the online teaching format are included.
Prereq.: admission to online RN-BSN completion program; Valid RN license.

### NURS 3730  Culture in Nursing  3 s.h.
Culture in Nursing: Students will develop cultural awareness, assessment, communication and intervention techniques for various Cultures. The application of Culture to the practice of Nursing will be emphasized.
Prereq.: Valid RN Licensure.

### NURS 3731  Child Bearing, Family, and Women's Health Nursing  5 s.h.
Family-centered nursing concentrating on health promotion and illness prevention, acute and chronic healthcare needs for parent(s) during the reproductive/developmental phases of the family cycle and for women from adolescence through old age. Three hours lecture and six hours clinical experiences in a variety of settings per week.
Prereq.: NURS 3741, NURS 3741L or departmental permission.

### NURS 3731L  Childbearing, Family, and Women's Health Nursing Laboratory  0 s.h.
Six hour weekly clinical experience to be taken concurrently with NURS 3731 Childbearing, Family and Women's Health Nursing. Prereq. NURS 3741/L or departmental permission.

### NURS 3735  Health Promotion Across the Lifespan  3 s.h.
This course provides the student with a theoretical foundation for wellness, health promotion and disease prevention across the lifespan. The role of the nurse as a health educator and patient advocate for health care and maintenance of health for patients of various ages, their families and groups will be explored. Students will develop a plan of care to ensure healthy lifestyles and promotion of wellness. Three class hours and no clinical hours/week.
Prereq.: Valid RN Licensure.

### NURS 3741  Professional Nursing 2  6 s.h.
Principles and practices of health promotion and rehabilitation of clients with acute and chronic health needs. Three hours lecture, eight hours clinical experience in a variety of settings per week.
Prereq.: NURS 2645/L.
Coreq.: NURS 3741L.

### NURS 3741L  Professional Nursing 2 Laboratory  0 s.h.
Eight hour clinical experience to be taken concurrently with NURS 3741.
Prereq.: NURS 2645/L.

### NURS 3743  Professional Nursing 3  5 s.h.
Advanced principles and practices of health promotion and rehabilitation of patients with acute and chronic health needs. Three hours lecture, six hours clinical experience in a variety of settings per week. To be taken concurrently with NURS 3743L.
Prereq.: NURS 3741/L.

### NURS 3743L  Professional Nursing 3 Laboratory  0 s.h.
Six hour clinical experience to be taken concurrently with NURS 3743 Professional Nursing 3.
Prereq.: NURS 3741/L.

### NURS 3746  Geriatric Health  2 s.h.
An examination of the aging person’s physical changes with implications for determining healthcare needs and for interpreting the impact of these upon the elder’s life and current health practices.
Prereq.: Junior status.

### NURS 3747  Individual Studies  1-3 s.h.
The study of special problems or a review of the literature relating to specific problems or issues. May be repeated for a maximum of 6 s.h. with different problems.
Prereq.: Admission to program or permission of department chairperson.

### NURS 3749  Nursing Research  3 s.h.
The process of research using reasoning and scientific rigor in critical analysis of nursing research.
Prereq.: STAT 2625, STAT 2601 or equivalent.

### NURS 3750  Evidence Based Practice  3 s.h.
Process of evidence based practice using research, reasoning and scientific rigor in critical analysis of nursing research. Prereq: STAT 2625, RN-BSN Online Program.

### NURS 3760  Nursing Summary  2 s.h.
Identification of student strengths and weaknesses with emphasis on improving student’s ability to demonstrate understanding of essential nursing knowledge. Analysis, synthesis, and evaluation of care delivered by the health care team with emphasis on development of leadership and research roles. This course is comprised of the following hours/week: two hours lecture and 90 hours clinical over the semester with a designated preceptor in a variety of settings.
Prereq.: NURS 3755.
NURS 4804  Health Assessment for RNs  3 s.h.
Increase clinical knowledge and skills in health assessment of clients of various age groups, and the reporting and recording of findings.
Prereq.: admission to online RN-BSN completion program.

NURS 4832  Nursing Care of Children and Families  5 s.h.
Family-centered nursing concentrating on health promotion/illness and prevention and acute/chronic health care needs of the developing child and family. Three hours lecture and six hours clinical experience in a variety of settings per week.
Prereq.: NURS 3741/L.
Coreq.: 4832L.

NURS 4832L  Nursing Care of Children and Families Laboratory  0 s.h.
Nursing Care of Children and Families Laboratory.

NURS 4840  Complex Care  5 s.h.
High acuity, restorative, and health promoting care of clients with complex health problems. Three hours lecture, six hours clinical experience in a variety of settings per week.
Prereq.: NURS 3743/L, NURS 3743L, Entry-level BSN senior status.

NURS 4840L  Complex Care Laboratory  0 s.h.
Complex Care Laboratory.

NURS 4842  Mental Health Nursing  5 s.h.
This course provides mental health theories and strategies as the foundation in the management of individuals, families, and groups experiencing acute and chronic mental illness. Emphasis on the promotion of optimal level functioning and mental wellness. Three hours lecture, six hours clinical experience in a variety of settings per week.
Prereq.: NURS 3743/L; Entry-level BSN senior status.

NURS 4842L  Mental Health Nursing Laboratory  0 s.h.
Mental Health Nursing Laboratory.

NURS 4844  Community Health Nursing  3 s.h.
Synthesis of nursing and public health sciences with emphasis on promotion and maintenance of healthy communities through the assessment and analysis of at-risk population groups. Includes nursing role in health care policy.
Prereq.: NURS 3743/L.

NURS 4846  Community Health Nursing for RNs  3 s.h.
A synthesis of nursing and public health sciences emphasizing health of communities through assessment analysis of at-risk population groups. Includes nursing role in healthcare policy.
Prereq.: Valid RN license.

NURS 4852  Senior Capstone Seminar  3 s.h.
Provides students with opportunities to integrate and synthesize nursing knowledge through research, writing, and presentations on current topics and issues. Total experiential learning 20 hours.
Prereq.: RN license.
Gen Ed: Capstone.

NURS 4853  Nursing Transitions  4 s.h.
Analysis, synthesis, and evaluation of care delivered by the healthcare team with emphasis on development of leadership and research roles. Two hours lecture and eight hours clinical experience with a preceptor in a variety of settings per week.
Prereq.: NURS 3743, NURS 3743L.
Coreq.: NURS 4840, NURS 4840L, or NURS 4842, NURS 4842L.

NURS 4853L  Nursing Transitions Laboratory  0 s.h.
Nursing Transitions Laboratory.

NURS 4854  Nursing Leadership  4 s.h.
Analysis, synthesis, and evaluation of care delivered by the healthcare team with emphasis on development of leadership and research roles for the registered nurse. Total experiential learning 40 hours.
Prereq.: Valid RN License.

NURS 4854L  Nursing Leadership Laboratory  0 s.h.
Nursing Leadership Laboratory.

NURS 4855  Comprehensive Nursing Summary  2 s.h.
Identifies individual strengths and weaknesses with emphasis on improving students’ understanding and demonstration of essential nursing knowledge. Must be taken concurrently with NURS 4853 and NURS 4852.
Prereq.: Senior standing in nursing.

Learning Outcomes
BACCALAUREATE NURSING STUDENT LEARNING OUTCOMES
The integration of nursing theory, clinical practice, and critical thinking serves as the foundation for the program and upon completion of the program, the graduate is able to:

- Use the American Nurses Association Standards of Care when providing care for individuals, families, groups, and communities across the life span.
- Use critical thinking in decision-making and problem-solving while adhering to the Professional Code of Ethics for Nurses.
- Use effective and appropriate interpersonal communications and information technology.
- Apply theories and research findings from nursing and other disciplines to provide evidence-based, clinically, competent care.
- Provide culturally sensitive care and health education to individuals, families, groups, and communities.
- Demonstrate leadership and apply management skills that promote accountability, legal and ethical conduct, and maintenance of standards of care.
- Collaborate with the interdisciplinary healthcare team in planning, coordinating, and evaluating outcomes for quality cost-effective care and continuous improvement of the healthcare system.
- Manage human and material resources to provide access to healthcare for individuals, families, groups, and communities.
- Advocate for public policy to provide and protect the health of the public.
- Demonstrate commitment to life-long learning and service to the nursing profession.

Bachelor of Science in Nursing for Entry-Level Students

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1</td>
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<tr>
<td>BIOL 1551 &amp; 1551L</td>
<td>Anatomy and Physiology 1 and Anatomy and Physiology 1 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology (SS)</td>
<td>3</td>
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<tr>
<td>STAT 2625 or STAT 2601</td>
<td>Statistical Literacy and Critical Reasoning or Introductory Statistics</td>
<td>4</td>
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Semester Hours 15

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<tr>
<th>Year 1</th>
<th>Spring</th>
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<tbody>
<tr>
<td>CHEM 1510 &amp; 1510L</td>
<td>Chemistry for the Allied Health Sciences and Chemistry for the Allied Health Sciences Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 1552 &amp; 1552L</td>
<td>Anatomy and Physiology 2 and Anatomy and Physiology 2 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>Lifespan Development</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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Semester Hours 17
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<tr>
<th>Year 2</th>
<th>Fall</th>
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<tbody>
<tr>
<td>BIOL 1560 &amp; 1560L</td>
<td>Microbiology for the Health Professions and Microbiology Laboratory for Health Professions</td>
</tr>
<tr>
<td>NURS 2610</td>
<td>Contemporary Nursing</td>
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<tr>
<td>NURS 2643 &amp; 2643L</td>
<td>Health Assessment and Health Assessment Laboratory</td>
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<tr>
<td>NURS 2646</td>
<td>Pathophysiology</td>
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<td><strong>Semester Hours</strong></td>
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<tbody>
<tr>
<td>CMST 1545</td>
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<tr>
<td>FNUT 1551</td>
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<tr>
<td>NURS 2645 &amp; 2645L</td>
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<tr>
<td>NURS 2650</td>
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<td><strong>Semester Hours</strong></td>
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<table>
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<tr>
<th>Year 3</th>
<th>Fall</th>
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<tbody>
<tr>
<td>NURS 3710 &amp; 3710L</td>
<td>Nursing in the Community and Nursing in the Community Laboratory</td>
</tr>
<tr>
<td>NURS 3741 &amp; 3741L</td>
<td>Professional Nursing 2 and Professional Nursing 2 Laboratory</td>
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<tr>
<td>Arts &amp; Humanities GER (AH)</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<th>Spring</th>
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<tr>
<td>NURS 3743 &amp; 3743L</td>
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<tr>
<td>NURS 3749</td>
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<tr>
<td>NURS 3731 &amp; 3731L</td>
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<td><strong>Semester Hours</strong></td>
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<th>Year 4</th>
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<tbody>
<tr>
<td>NURS 3731 &amp; 3731L</td>
<td>Child Bearing, Family, and Women's Health Nursing and Childbearing, Family, and Women's Health Nursing Laboratory</td>
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<tr>
<td>NURS 4840 &amp; 4840L</td>
<td>Complex Care and Complex Care Laboratory (spring or fall semester)</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<th>Spring</th>
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<tr>
<td>NURS 4840 &amp; 4840L</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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| Potential Credits Carried into the Completion Program (78 s.h.) |
| Block Credit Awarded: **29** |

The following Block Credit will be granted and posted on the student’s transcript after admission to the RN-BSN completion program:

- BIOL 1551: Anatomy and Physiology 1
- BIOL 1551L: Anatomy and Physiology 1 Laboratory
- BIOL 1552: Anatomy and Physiology 2
- BIOL 1552L: Anatomy and Physiology 2 Laboratory
- BIOL 1560: Microbiology for the Health Professions
- BIOL 1560L: Microbiology Laboratory for Health Professions
- ENGL 1550: Writing 1
- PSYC 1560: General Psychology
- SOC 1500: Introduction to Sociology
- FNUT 1551: Normal Nutrition
- Arts and Humanities General Education Course
- Elective Course

| Transfer and/or Prior Learning Nursing Credits Earned | up to 39 |

This is credit earned in student’s RN program; credit will be given for some or all of the following courses:

- NURS 2645: Professional Nursing 1
- NURS 2645L: Professional Nursing 1 Laboratory
- NURS 3731: Child Bearing, Family, and Women’s Health Nursing
- NURS 3731L: Childbearing, Family, and Women's Health Nursing Laboratory
- NURS 4842 & 4842L: Mental Health Nursing and Mental Health Nursing Laboratory
- NURS 4844: Community Health Nursing
- Elective

| Bachelor of Science in Nursing for RN Students (100% Online RN-BSN Completion) |
|-----------------------------|-----------------------------|
| **COURSE** | **TITLE** |
| NURS 4842 | Mental Health Nursing and Mental Health Nursing Laboratory (spring or fall semester) |
| NURS 4852 | Senior Capstone Seminar |
| NURS 4853 | Nursing Transitions and Nursing Transitions Laboratory |
| NURS 4855 | Comprehensive Nursing Summary |
| **Semester Hours** | **12** |

| Note: All Basic Skills & Knowledge Domains requirements are included in the above curriculum. |

Once admitted into the program sophomore year, any deviation from the prescribed curriculum must be approved by the Admission, Progression, and Graduation (APG) Committee.

| Bachelor of Science in Nursing for RN Students (100% Online RN-BSN Completion) |
|-----------------------------|-----------------------------|
| **COURSE** | **TITLE** |
| NURS 4840 | Complex Care |
| NURS 4840L | Complex Care Laboratory |
Program Description

The School Nurse Licensure program is designed to build on an undergraduate education and to prepare registered nurses with a baccalaureate degree for school nurse licensure. Courses are taught by faculty in the Centofanti School of Nursing and in the Beeghly College of Education.

License in School Nurse Licensure

Required Courses for the Bachelor of Science in Nursing for RN Students (47 s.h.)

Additional General Education Requirements (may be taken concurrently with nursing courses):

- ENGL 1551 Writing 2 (may be taken concurrently with nursing courses) 3
- CMST 1545 Communication Foundations (may be taken concurrently with nursing courses) 3
- STAT 2625 Statistical Literacy and Critical Reasoning (may be taken concurrently with nursing courses but must be taken prior to NURS 3750) 4
- or STAT 2601 Introductory Statistics 3
- PSYC 3758 Lifespan Development (credit for PSYC 3758 will be given if PSYC 3750, 3756 or 3757 has previously been taken) 3

Any approved Arts and Humanities Course 3

Required Support Course 3-4

CHEM 1520 Allied Health Chemistry for Online Programs 3

OR

CHEM 1505 Allied Health Chemistry 1 3

OR

CHEM 1510 & 1510L Chemistry for the Allied Health Sciences and Chemistry for the Allied Health Sciences Laboratory 4

OR

Equivalent is also accepted

Required Nursing Courses

- NURS 3720 Professional Nursing 3
- NURS 3725 Nursing Informatics 3
- NURS 3730 Culture in Nursing 3
- NURS 3735 Health Promotion Across the Lifespan 3
- NURS 3750 Evidence Based Practice 3
- NURS 4804 Health Assessment for RNs 3
- NURS 4846 Community Health Nursing for RNs 3
- NURS 4852 Senior Capstone Seminar (20 hours of clinical) 3
- NURS 4854 Nursing Leadership 4
- NURS 4854L Nursing Leadership Laboratory (40 hours of clinical) 0
- NURS Electives or Individual Studies if additional hours are needed

Required Nursing Total Credit Hours in Completion Program = 47

Potential Prior Credit Brought Into the Completion Program = 78

Total Credits for BS in Nursing = 120

Please see the YSU Nursing RN-BSN Course Schedule 7-week Semester Grid in the Nursing Handbook: https://ysu.edu/sites/default/files/Nursing/Documents/FINAL%202019-2020.pdf

Curriculum

This program requires 15-17 semester credit hours including four courses plus 300 practicum hours (5 sh credit) in a school setting under the supervision of a licensed school nurse preceptor and a university faculty member. This practicum may be taken in increments to accommodate the working student. Opportunities for practicum hours to be waived (up to 200 hours) are considered on an individual basis for nurses with school nurse experience. Courses are either online or hybrid, meeting about four (4) times during the semester. After the completion of the courses, the student will receive a post-baccalaureate certificate.

Admission Process

Students seeking admission into the school nurse licensure program must have an undergraduate degree (BSN) with coursework in growth and development, psychology, sociology, and community health.

Students must be licensed to practice nursing in Ohio or eligible to be licensed (graduate of an approved school of nursing).

An Ohio Registered Nurse license is required for practicum placement. For more information and specific course descriptions, see the School Nurse Licensure Program Description (http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-nursing/school-nurse-licensure-program/School_Nurse_Licensure_Program_-_7_-2016.pdf) or contact Dr. Valerie O’Dell at vmodell@ysu.edu.

Department of Social Work

(330) 941-1598

3365 Cushwa Hall

The baccalaureate degree with a major in social work prepares students for entry into beginning, generalist, and entry-level professional social work practice. Social workers are employed in a variety of settings such as public and private welfare agencies, mental health centers, health care settings, educational systems, correctional institutions, and business and industry.

The Bachelor of Social Work program is available on the main (Youngstown) campus. This program is also available in partnership with Lorain County Community College in Elyria, Ohio, and Lakeland County Community College in Kirtland, Ohio. For more specific information pertaining to the BSW program at the partnership sites, visit BSW and MSW Partnership Programs (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/bsw-msw-partnership-programs/).

The BSW program at all sites is accredited by the Council on Social Work Education.

Course work at the host community college and combine credits earned with YSU social work courses taught on the site of the respective community college fulfill requirements for the BSW degree. All YSU instruction is provided by YSU faculty members. Students have access to Ohio LINK online research services, YSU student support, and additional academic support available through the community college.
Core Competencies of Social Work Practice

The BSW program at Youngstown State University applies a competency-based curriculum that develops in students core competencies of generalist social work practice as defined by the Council on Social Work Education. Upon graduating from the BSW program students are expected to:

1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice
3. Advance human rights and social, economic and environmental justice.
4. Engage in research-informed practice and practice-informed research.
5. Engage in policy practice
6. Engage with individuals, families, groups, organizations and communities.
7. Assess individuals, families, groups, organizations and communities
8. Intervene with individuals, families, groups, organizations and communities.
9. Evaluate practice with individuals, families, groups, organizations and communities

Admission Policy

Neither admission to the University nor enrollment in social work courses as a pre-social work major guarantees full admission to the social work program. Full admission to the program is required to become a social work major and to gain access to upper-division social work classes. Pre-social work majors who are not formally admitted to the social work program will be unable to obtain a permit to register for SCWK 3736 Social Work Methods with Individuals and subsequent social work courses for which SCWK 3736 Social Work Methods with Individuals is a prerequisite.

Qualified students who have been convicted of misdemeanor or felony offenses may be admitted to the program. However, field internship opportunities may be restricted due to agency prohibitions pertaining to the engagement of students in agency work in possession of criminal records. Additionally, students should be aware that state licensure in social work may not be possible for individuals with past convictions. Students with convictions are advised to become informed of requirements pertaining to social work licensure and possible avenues of appeal as they consider their convictions are going to impact their ability to practice the profession of social work.

For more information, visit the Department of Social Work.

Chair
Dana Davis, Ph.D., Associate Professor, Chair
Professor
Mari L. Alschuler, Ph.D., Associate Professor
Meenakshi Venkataraman, Ph.D., Assistant Professor
Sherri Harper Woods, D.M., Assistant Professor
Lecturer
Meghan Bileci, M.S.W., Lecturer
Tami W. Holcomb-Hathy, M.S.S.A., Senior Lecturer
Willie Peterson, M.A., Lecturer
Karla A. Wyant, M.S., Senior Lecturer

Majors

- Pre-Social Work (p. 418)
- Social Work (p. 415)

Minors

- Minor in Social Work (p. 418)

SCWK 1510 Introduction to Social Work 3 s.h.
An overview of the values, systems, theories and concepts central to the profession of social work. This course will also review roles, licensure requirements and history of the social work profession. This is the first course orienting students to the social work profession.

SCWK 2600 Health Issues for Social Work Practice 3 s.h.
Explores impact of physical and biological forces on client issues/needs and importance of understanding these factors for professional social work practice. Emphasis given to biological development across the human lifespan, ecological issues, genetic influences, health concerns.
Prereq.: ENGL 1550 and SCWK 1510.

SCWK 2622 Social Work Processes 3 s.h.
Addresses the full range of communication skills in systems of all sizes for professional social work practice. Includes principles of effective communication, functions and purposes of communication, and the roles of social workers. Thirty clock hours of volunteer engagement required. Three hours lecture.
Prereq.: SCWK 1510.

SCWK 2641 American Social Welfare 3 s.h.
Overview of the history and evolution of social welfare programs and services in America. Emphasis on the identification and interrelationships of social values and structures, political factors, and economic conditions on resource allocation, including meeting the needs of special populations.

SCWK 2642 Human Behavior and the Social Environment for Social Workers 1 3 s.h.
A general social systems approach as a conceptual framework to the understanding of culture and society, communities, organizations, groups, families, and individuals as they develop over the lifespan. Application of theory and research to social work.
Prereq.: SCWK 1510, PSYC 1560.

SCWK 2644 Human Behavior and the Social Environment for Social Workers 2 3 s.h.
An ecosystems perspective in understanding families, groups, organizations and communities. Focus on individuals and their transactions with each other and their environment. Application of theory and research to social work.

SCWK 3720 Cultural Diversity 3 s.h.
This course emphasizes understanding the experiences, values, beliefs, and inherent problems of racial, ethnic, and other vulnerable population groups. The course focuses on groups affected by socioeconomic disparities, gender, sexual orientation and expression, religion, physical and cognitive challenges, and age. Students will be asked to apply theories, use differential assessments, and develop and use intervention skills necessary for effective social work practice with a diverse population.
Prereq.: Admission to the social work program.

SCWK 3726 Child Welfare and Case Planning 3 s.h.
This course provides the knowledge, concepts, and skills needed for beginning level social work practice in public and child welfare settings. Major focus is on protecting at-risk children by strengthening, supporting and empowering families.
Prereq.: SCWK 1510.

SCWK 3727 Child Welfare Permanency Planning 3 s.h.
Provides the knowledge, concepts, and skills needed for beginning level social work practice in public child welfare settings. Major focus is on the developmental needs and permanency planning associated with at-risk children served by the child welfare system.
Prereq.: SCWK 1510.
SCWK 3728 Social Services for Children  3 s.h.
Social welfare agencies and services developed by communities for the care and training of children. Development of a conceptual framework for understanding the issues, problems, and policies in children's services.
Prereq.: SCWK 2622.

SCWK 3730 Social Services and the Aged  3 s.h.
An empirical and analytical base for understanding the policies, problems, and trends in services for the aged.
Prereq.: SCWK 2622.

SCWK 3731 Social Services and the Disabled  3 s.h.
Problems arising from or related to illness and disability; adjustment of disabled persons. General investigative techniques for working with the disabled; recent research and treatment innovations.
Prereq.: SCWK 2622.

SCWK 3736 Social Work Methods with Individuals  3 s.h.
Overview of generalist practice methods with client systems of varying sizes. In-depth analysis of problem solving strategies and skills in working with individuals. Theory and research relating to practice. Social work purposes, functions, and values are addressed from the systems perspective.
Prereq.: Admission to SCWK Program.

SCWK 3737 Social Work Methods with Groups  3 s.h.
In-depth analysis of problem-solving strategies and skills in working with small groups. Theory and research relating to practice. Social work purpose, functions, and values are addressed for the systems perspective.
Prereq.: SCWK 3736.

SCWK 3738 Social Work Methods with Families  3 s.h.
In-depth analysis of problem-solving strategies and skills in working with families. Theory and research relating to practice. Social work purposes, functions, and values are addressed from the systems perspective.
Prereq.: SCWK 3736.

SCWK 3739 Social Work Methods with Communities and Organizations  3 s.h.
This course presents an in-depth analysis of problem-solving strategies and skills in working with organizations and communities. Theory and research relating to practice will be examined. Social Work purpose, functions, and values are addressed from the systems perspective.
Prereq.: SCWK 3736.

SCWK 3740 Mental Health and Addictions  3 s.h.
This course focuses on the study of mental health and addictions in the Social Work discipline. The course includes social work theory, practice and service delivery methods, and research. Policy considerations will also be addressed.
Prereq.: Junior standing or permission of instructor.

SCWK 3760 Research Methods for Social Workers  3 s.h.
Quantitative and Qualitative research methodologies for building knowledge for social work practice. Systematic evaluation of outcomes, theoretical bases, relevant technological advances, and ethical standards.
Prereq.: Admission into the social work program.

SCWK 3770 Social Policy  3 s.h.
Review of the programs, structures and functions of social services including historical development and social, political and economic issues. Application of scientific method to analyze and develop social work policies designed to achieve social work goals and purpose.
Prereq.: SCWK 2641 and POL 1560.

SCWK 4820 Special Topics Elective in Social Work  1-6 s.h.
An examination of various social work topics and issues of both current and long standing interest. 1 -.
Prereq.: BSW Student or permission of the BSW coordinator.

SCWK 4821 BSW Independent Study  1-6 s.h.
This course involves study under the personal supervision of a faculty member with the approval of the BSW Coordinator. The course demands that student and faculty member choose a topic related to the Social Work field. For successful completion students will tie the topic to at least three different CSWE. 1 -.
Prereq.: BSW Student.

SCWK 4825 Field Work in Social Services  6 s.h.
Professionally supervised practice in an approved social agency. The student must complete 225 hours per semester in an agency for each 6 s.h. of credit. Must be taken two consecutive semesters for a total of 12 s.h. CR/NC grade option only.
Prereq.: Admission to Social Work Internship.

SCWK 4826 Integrated Field Work Seminar  3 s.h.
Integration and evaluation of conceptual and experiential learning achieved from previous social work courses and field-based assignments.
Prereq.: Completion of courses required to enter field work.
Concurrent: SCWK 4825 first enrollment.

SCWK 4827 Integrated Capstone Seminar  3 s.h.
Provides opportunities to synthesize and integrate all the previous coursework from social work education. Includes both theoretical and experiential assignments to assist students with increased self awareness and to prepare them for the transition from college to entry-level generalist practice.
Prereq.: Completion of courses required to enter field work and SCWK 4826.
Concurrent: SCWK 4825 second enrollment.

Gen Ed: Capstone.

SCWK 4860 Seminar Special Topics in Social Work  1-3 s.h.
Study of selected topics in social work theory, methods and research. May be repeated with different topics. 1-3 s.h.
Prereq.: Junior standing or permission of instructor.

SCWK 4860P Seminar Special Topics in Social Work Substance Abuse and Recovery  1-3 s.h.
Study of selected topics in social work theory, methods and research. May be repeated with different topics. 1-3 s.h.
Prereq.: Junior standing or permission of instructor.

Bachelor of Social Work in Social Work

Youngstown State University offers an accredited Bachelor of Social Work program. The program includes general education, support, social work lecture courses and a social work field internship to prepare graduates for entry-level professional social work practice. Graduates of the BSW program are eligible for a license to practice social work as a Licensed Social Worker (LSW) in Ohio.

WELCOME

The social work profession has a long-standing tradition of delivering the energy, intelligence, and heart to make a difference in the lives of people. Through the efforts and energy of social workers, people who might otherwise suffer or go without suffer less and have what they need. Because of the knowledge and skills social workers use to help people, complex human problems are addressed responsibly using the best methods available. And through the expression of humane values held by members of the social work profession, people served are treated with compassion and dignity.

Social workers are committed to helping people adapt with a keen eye on the environment and the opportunities that exist to make this adaptation possible. Social workers work with a broad range of people and the concerns they bring and are interested in the actions that will improve their situations. Social workers are employed in a broad range of organizations both private and governmental.
BSW Program Goals

1. Prepare students for beginning, generalist social work practice.
2. Provide students with the ability to integrate the knowledge, values and skills of the social work profession into competent practice with individuals, families, groups, organizations and communities.
3. Develop the ability of students to work with a diversity of clients, presenting problems, and social service delivery systems.
4. Facilitate the development of core values and ethics of the social work profession.
5. Prepare students to understand and to address issues pertaining to social and economic justice to include poverty, oppression, racism and discrimination.
6. Prepare students to sustain their effectiveness by instilling the value of continuing professional growth and development.

ADMISSION AND PROGRESSION

Pre-Social Work

Students enter the BSW program by declaring themselves as pre-social work majors and begin progress toward a degree by enrolling in General Education Requirement, support, and pre-social work courses. These courses are typically completed in the freshman and sophomore years.

Neither admission to the University nor enrollment in social work courses as a pre-social work major guarantees full admission to the social work major. Full admission to the major is required to enroll in upper-division social work classes. Pre-social work majors who are not formally admitted to the social work program will be unable to obtain a permit to register for Social Work 3736 and subsequent social work courses for which Social Work 3736 is a prerequisite. To be admitted to the program as a social work major, pre-social work majors must meet the following requirements:

1. Complete all pre-social work courses with a C or better.
2. Possess an overall GPA of 2.5 or better.
3. Submit a completed Social Work Program Admission Application (available online or from the Department of Social Work) before the fourth week of the semester preceding the semester for which admission is sought.
4. Participate in an admission interview and be approved for admission by the BSW Program Admission Committee.

ADVISORS

Brian Wells (330) 941-3323 bpwells@ysu.edu
Dr. Dana Davis (330) 941-3774 ddavis05@ysu.edu

ACCREDITATION

The Bachelor of Social Work program at Youngstown State University is fully accredited by the Council on Social Work Education (http://www.cswe.org/).

The program was originally accredited in 1990, has remained accredited to-date. Graduates of the BSW program are eligible for social work licensing in the State of Ohio. In 2016 YSU had seventy-seven percent of students take the exam and passed on their first attempt.

Program Locations

The Bachelor of Social Work program is available on the main (Youngstown) campus. This program is also available in partnership with Lakeland Community College in Kirtland, Ohio and Lorain County Community College in Elyria, Ohio. For more specific information pertaining to the BSW program at the partnership sites contact the following program coordinators:

Lakeland CC: Ms. Tami Holcomb thawolcomb@ysu.edu
Lorain CCC: Ms. Karla Wyant kawyant@ysu.edu

The Bachelor of Social Work program at all sites is accredited by the Council on Social Work Education.

If you are ready for a human services career that is challenging and offers a wide range of rewards, the Bachelor of Social Work degree is the place to start. I invite you to explore the social work major at Youngstown State University.

DEPARTMENT CONTACT INFORMATION

- BSW Program Coordinator: Meenaskshi Venkataraman, PhD, Assistant Professor x2056 mvenkataraman@ysu.edu
- Social Work Department Chairman: Dr. Dana Davis: (330) 941-3774 davis05@ysu.edu
- Social Work Department Office: (330) 941-1598

BSW Program Mission

The Bachelor of Social Work Program at Youngstown State University has as its primary mission the educational preparation of students for beginning, competent, generalist social work practice.

The Bachelor of Social Work Program at Youngstown State University prepares graduates to assume professional roles in addressing social problems that are related to the economic and social conditions of the Youngstown region. Conditions of poverty, unemployment, underemployment, racial and ethnic disparities and demands for service exist in the region. Racial and ethnic minorities, women and children are particularly vulnerable groups who are overrepresented with regard to disparate social and economic conditions. The Department of Social Work is committed to raising the consciousness of students with regard to these conditions as well as increasing their understanding of how vulnerable groups are often the target of the aforementioned injustices. Exposing students to these problems increases understanding and enhances the potential for thoughtful solutions and remedies.

The Bachelor of Social Work Program at Youngstown State University offers education preparation that enables students to integrate the knowledge, values, and skills of the social work profession into competent practice with individuals, families, groups, institutions, organizations, and communities. This preparation also enables students to apply their understanding of the social work profession in a broad range of client service settings with a variety of groups and presenting problems. As entry level practitioners, graduates are capable of delivering social services in a manner that is consistent with the values and ethics of the social work profession. Ultimately, students recognize their responsibility to continue their professional growth and development to include the incorporation of the latest technologies in their practice.

The mission, purpose, and philosophy of the Bachelor of Social Work Program at Youngstown State University are consistent with the overall institutional mission. The institutional mission is "dedicated to encouraging public service . . . promoting and understanding diversity . . . and advancing the intellectual, cultural and economic life of the state and region." The Bachelor of Social Work Program embraces the institution's commitment to address the needs of the region it which it is located.

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Lorain CCC: Ms. Karla Wyant kawyant@ysu.edu

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Social Work Major Requirements

The following courses are completed in advance of the field internship SCWK 4825.

- SCWK 1510 Introduction to Social Work
- SCWK 2600 Health Issues for Social Work Practice
- SCWK 2622 Social Work Processes
- SCWK 2641 American Social Welfare
- SCWK 2642 Human Behavior and the Social Environment for Social Workers 1
- SCWK 2644 Human Behavior and the Social Environment for Social Workers 2

Electives to meet 120 hours

Total Semester Hours

Year 1

Fall

- SCWK 1500 Success Seminar
- SCWK 1510 Introduction to Social Work
- SCWK 2600 Health Issues for Social Work Practice
- SCWK 2622 Social Work Processes
- SCWK 2641 American Social Welfare
- SCWK 2642 Human Behavior and the Social Environment for Social Workers 1
- Elective

Semester Hours

Year 2

Fall

- SCWK 2642 Human Behavior and the Social Environment for Social Workers 2
- SCWK 2660 Health Issues for Social Work Practice
- Natural Science + Lab
- Elective

Semester Hours

Year 3

Fall

- SCWK 3736 Social Work Methods with Individuals
- SCWK 3770 Social Policy
- 3700-Level Elective
- Elective

Semester Hours

Spring

- SCWK 3736 Social Work Methods with Individuals
- SCWK 3770 Social Policy
- SCWK 3740 Mental Health and Addictions (Mental Health and Addictions)
- Elective

Semester Hours
Minor in Social Work

**Required Courses**
- SCWK 1510 Introduction to Social Work
- SCWK 2622 Social Work Processes
- Select two of the following:
  - SCWK 2600 Health Issues for Social Work Practice
  - SCWK 2644 Human Behavior and the Social Environment for Social Workers 2

**Electives**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>or SCWK 3726 or SCWK 3727 or SCWK 3730 or SCWK 3731 or SCWK 4860</td>
<td>Social Services and the Disabled</td>
<td>3</td>
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<td>SCWK 3737</td>
<td>Social Work Methods with Groups</td>
<td>3</td>
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<tr>
<td>SCWK 3738</td>
<td>Social Work Methods with Families</td>
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Request a Graduation Evaluation after completing 80-85 s.h. from the BCHHS Advising /Dean's Office, 2104 Cushwa Hall, (330) 941-3321.

<table>
<thead>
<tr>
<th>Semester Hours</th>
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</table>

**Year 4**

**Fall**
- SCWK 4825 Field Work in Social Services
- SCWK 4826 Integrated Field Work Seminar
- Elective
- SCWK 3738 Social Work Methods with Families

<table>
<thead>
<tr>
<th>Semester Hours</th>
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</table>

| SCWK 4825 | Field Work in Social Services | 6 |
| SCWK 4827 | Integrated Capstone Seminar | 3 |
| SCWK 3739 | Social Work Methods with Communities and Organizations | 3 |
| SCWK 3720 | Cultural Diversity | 3 |

<table>
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<th>Semester Hours</th>
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</table>

**Spring**
- SCWK 4825 Field Work in Social Services
- SCWK 4827 Integrated Capstone Seminar
- SCWK 3739 Social Work Methods with Communities and Organizations
- SCWK 3720 Cultural Diversity

<table>
<thead>
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<th>Semester Hours</th>
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<table>
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<th>120-123</th>
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</table>

**Pre-Social Work**

Students enter the BSW program by declaring themselves as pre-social work majors and begin progress toward a degree by enrolling in General Education requirements, support, and pre-social work courses. These courses are typically completed in the freshman and sophomore years. Neither admission to the University nor enrollment in social work courses as a pre-social work major guarantees full admission to the social work program.

Pre-Social Work courses include the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>4</td>
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<tr>
<td>or MATH 2623</td>
<td>Quantitative Reasoning</td>
<td>3</td>
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<tr>
<td>or MATH 2623C</td>
<td>Quantitative Reasoning with Co-Requisite Support</td>
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</table>

| SCWK 2642 | Human Behavior and the Social Environment for Social Workers 1 | 6 |
| SCWK 2641 | American Social Welfare | 6 |

<table>
<thead>
<tr>
<th>Select two of the following:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SCWK 3720</td>
<td>Cultural Diversity</td>
</tr>
<tr>
<td>SCWK 3726</td>
<td>Child Welfare and Case Planning</td>
</tr>
<tr>
<td>SCWK 3727</td>
<td>Child Welfare Permanency Planning</td>
</tr>
<tr>
<td>SCWK 3740</td>
<td>Mental Health and Addictions</td>
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<tr>
<td>SCWK 3770</td>
<td>Social Policy</td>
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<tr>
<td>HAHS 5875</td>
<td>Interprofessional Education for Health Professions</td>
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Students also select General Education math, natural science, social and personal awareness courses as well as electives as they complete pre-social work requirements the freshman and sophomore years of the program.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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</tr>
<tr>
<td>or MATH 2623C</td>
<td>Quantitative Reasoning with Co-Requisite Support</td>
<td>5</td>
</tr>
<tr>
<td>SCWK 2600</td>
<td>Health Issues for Social Work Practice</td>
<td>3</td>
</tr>
<tr>
<td>SCWK 2644</td>
<td>Human Behavior and the Social Environment for Social Workers 2</td>
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<tr>
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<td>YSU 1500</td>
<td>Success Seminar</td>
</tr>
<tr>
<td>or YSU 1549</td>
<td>Success Seminar with Support</td>
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</tbody>
</table>

<table>
<thead>
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<th>Total Semester Hours</th>
<th>18</th>
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</thead>
</table>

**Learning Outcomes**

The BSW program at Youngstown State University applies a competency-based curriculum that develops in students core competencies of generalist social work practice as defined by the Council on Social Work Education. Upon graduating from the BSW program, students are expected to:

1. Demonstrate ethical and professional behavior.
2. Engage diversity and difference in practice.
3. Advance human rights and social, economic, and environmental justice.
4. Engage in practice-informed research and research-informed practice.
5. Engage in policy practice.
6. Engage with individuals, families, groups, organizations, and communities.
7. Assess individuals, families, groups, organizations, and communities.
8. Intervene with individuals, families, groups, organizations, and communities.
9. Evaluate (practice with) individuals, families, groups, organizations, and communities.
Minor in Aerospace Studies (Air Force ROTC)

The Air Force ROTC program, offered through an agreement with Kent State University, provides professional preparation and leadership training for students considering service as officers in the U.S. Air Force. The program also offers information on Air Force career opportunities and the role of the military in the American society. Scholarships are available to help students complete their bachelor’s and/or master’s degrees.

Overview

There are two primary AFROTC programs under which officer candidates may earn their commissions.

- The first is a four-year AFROTC program. It includes membership in (and completion of) the General Military Course (GMC), a four-week field training course, and the Professional Officer Course (POC).
- The second is a two-year program designed for students who have two years of academic work remaining. In the two-year program, students are selected to participate in the POC program and attend a five-week field training course, which includes coursework covered during the freshman and sophomore years.

Both programs result in a commission as a Second Lieutenant in the United States Air Force. A minor in aerospace studies is available in consultation with the academic major advisor and the Aerospace Studies Department.

Registering

Courses are normally taken for YSU academic credit as part of the students’ electives. Entering freshmen and sophomores may register for aerospace studies courses at the same time, and in the same manner, as they enroll in their other YSU courses. Juniors and seniors wishing to enroll in AFROTC should call the AFROTC Unit Admissions Officer prior to enrollment to discuss the particular requirements. Students enrolled in the program must travel to Kent State University once a week to attend the courses. Arrangements can be made for carpools or pick-up if the students do not have transportation.

The General Military Course

The General Military Course (GMC) is offered in four-sequenced lower-division aerospace studies courses. Each course consists of one hour of academic instruction per week and 15 leadership laboratory contact hours per semester. Non-scholarship membership in the GMC does not confer any military status or commitment upon the students, but affords them the opportunity to learn about the Air Force and its role in the American society. Students who do not want commissions may take the aerospace studies courses for academic credit only. There is no military obligation incurred by enrolling in the GMC.

The Professional Officer Course

The Professional Officer Course (POC) is a four-part upper division aerospace studies course. Each course consists of three hours of academic instruction per week and 15 leadership laboratory contact hours per semester. Entrance into POC is limited to qualified students desiring to compete for Air Force commissions. Enrollment in this program is based upon a cumulative grade point average, physical qualifications, and leadership.

Veterans

Veterans with previous honorable, active U.S. military service who wish to enroll in the POC may be eligible for a waiver of either the GMC or its equivalent as an entrance requirement.

Uniforms and Textbooks

AFROTC uniforms and textbooks are provided at no charge. Textbooks are returned upon completion of each academic year or upon withdrawal from the course. Uniforms are returned upon completion of the program or withdrawal from the course.

Financial Assistance

Students who demonstrate academic and leadership potential may be selected by the professor of aerospace studies to compete for scholarships. The scholarship award includes tuition, textbook allowance, some course fees, and a monthly tax-free stipend.

Contact Information

For further information, contact:

Department of Aerospace Studies
AFROTC DET 630
104 Terrace Hall
Kent State University
Kent, Ohio 44242
(330) 672-2182
or e-mail us at: det630@kent.edu.

The curriculum in aerospace studies is divided into two parts:

- the General Military Course, usually taken during the freshman and sophomore years
- the Professional Officer Course, normally taken during the junior and senior years (see Overview, above)

Air Force officers are assigned as full-time faculty members and teach all aerospace studies courses. The courses include one hour of academic instruction and a 1 ½-hour leadership laboratory each week. All courses are taught at the Kent State University main campus in Kent, Ohio. Non-scholarship students incur no military obligation when enrolled in freshman- and sophomore-level courses.

Year 1

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The College of Science, Technology, Engineering, and Mathematics

Wim Steelant, Ph.D., Dean

Moser Hall 2200
(330) 941-3009

The College of Science, Technology, Engineering, and Mathematics (STEM) is the academic unit of the university comprising the following departments:

- Chemical and Biological Sciences
  - Forensic Science
- Rayen School of Engineering
  - Civil/Environmental and Chemical Engineering
  - Electrical and Computer Engineering
  - Mechanical, Industrial, and Manufacturing Engineering
- School of Computer Science, Information, and Engineering Technology
  - Mathematics and Statistics
  - Physics, Astronomy, Geology, and Environmental Sciences

Formed in 2007 through an administrative reorganization, the STEM College is committed to strengthening core areas of its departments as well as facilitating collaborations between its faculties and students at all levels in their disciplines. Its formation is a bold initiative in coupling higher education to economic development by enhancing research activities and collaboration with industry.

College of STEM Mission

The College of STEM is committed to furthering the mission of Youngstown State University by delivering integrated programs of excellence to an engaged learning community. The College uses state-of-the-art technology in teaching and research to meet the educational objectives of students, both undergraduate and graduate, enrolled in all its programs. The College fosters intellectual growth through integration of teaching, scholarship, and service that expands the talents of its constituencies—includeing students, faculty, business, industry, and government—with synergistic activities in and beyond the classroom; prepares our graduates for a multidisciplinary world through a flexible and diverse curriculum; and meets the need for a well-educated, skilled workforce for economic growth with industrial partnerships, research, and scholarship.

Core Values

The College of STEM fully subscribes to the core values of the University: the centrality of students; excellence and innovation; integrity/human dignity; and collegiality and public engagement.

- We are a learning-centered college committed to the intellectual, ethical, and career growth of all learners, both inside and outside the classroom.
- We foster intellectual inquiry, exploration, and discovery that transcends traditional boundaries and facilitates interdisciplinary scholarship. We expand and apply knowledge and encourage creativity through research and scholarship.
- We are committed to the social development of students, by promoting ethical behavior and collegiality in all endeavors, and to enrichment of the University through diversity of the faculty and student body.
- We enhance the quality of life and economic health of the region, the state, and beyond by providing students with the knowledge and skills to meet the challenges of modern society, and by providing business, industry, government, K-12 schools, and the public with technical expertise and leadership to support innovation and growth.

Degrees/Programs

The College offers four bachelor’s degrees:

- Bachelor of Arts (BA)
- Bachelor of Engineering (BE)
- Bachelor of Science (BS)
- Bachelor of Science in Applied Science (BSAS)

The College offers two associate degrees:

- Associate of Applied Science (AAS)
- Associate of Technical Studies (ATS)

Also, in conjunction with FirstEnergy Corporation, the power plant technology option is available. Please visit our website (http://www.ysu.edu/powersystems/) for more information regarding the lineworker and power plant technology programs.

A certificate program is offered in construction management technology.

Students whose needs are not met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (see Academic Policies and Procedures).

Admissions

Students who are calculus-ready will be directly admitted into the academic department in their major. Those who are not will remain under the guidance of the professional advising staff until they are department-ready. For more details on the preparation and criteria of the STEM standards, please check with the Advising Center in the College of STEM.

Degree Requirements

Requirements for completion of a baccalaureate degree and an associate degree within the College of STEM include all University requirements detailed in the Academic Policies and Procedures section of the Undergraduate Catalog (i.e., graduation and general education requirements, course levels requirements including majors [and minors, where applicable], grade point average, residency, and degree applications). Specific requirements for each major in the College of STEM are listed by department or school. Consult the Rayen School of Engineering and Engineering Technology section in the Undergraduate Catalog for additional graduation requirements for the BE degree.
Minors
Minors are not required for every program/major in the STEM College. Consult the curricula listed in the department sections of the catalog for specific requirements for each major. For programs/majors requiring minors, at least eighteen (18) semester hours are required for the minor, and one-third of the hours must be upper-division.

Foreign Language Requirement for the Bachelor’s Degree
All candidates for the BA degrees and the BS degree in math in the College are required to complete the elementary (1550: Elementary Foreign Language) and the intermediate level (2600: Intermediate Foreign Language) of the same foreign language. Students with a foreign language background may desire to take the foreign language placement test in order to place into the intermediate level (2600) or satisfy the requirement. It may be possible to satisfy the foreign language requirement through appropriate college transfer coursework and credit by exam.

Candidates for the BS entering after fall 2012 (except Math majors), candidates for the BE degree, and candidates for the BSAS degree do not have a foreign language requirement.

For more information, visit the College of Science, Technology, Engineering, and Mathematics (STEM) (http://www.ysu.edu/academics/science-technology-engineering-mathematics/).

Department of Chemical and Biological Sciences (and Forensic Science)

Dept. Main Office:
Ward Beecher Science Hall, Room 5053
Youngstown State University
Youngstown, OH 44555
Dept. Chairperson: Dr. Tim R. Wagner (trwagner@ysu.edu), 330-941-3662
Academic Operations Specialist: Lisa DeVore (lldevore@ysu.edu), 330-941-3664

Welcome
The former departments of Chemistry and Biological Sciences, along with the Forensic Science program from the former Department of Criminal Justice and Forensic Sciences, have all merged together to form the new Department of Chemical and Biological Sciences. Our new department is comprised of nearly 50 full- and part-time faculty members and technical and administrative staff.

The department offers several degree programs, including BA, BS, and MS programs in Biological Sciences and Chemistry, and a BSAS program in Forensic Science. To learn more about these programs and various tracks available within them (e.g., pre-medicine), visit the links below:

- Biological Sciences Division (p. 421)
- Chemical Sciences Division (p. 432)
- Forensic Science Division (p. 441)

Dept. Mission Statement
The mission of the Department of Chemical and Biological Sciences embraces the interdependent core aspects of undergraduate and graduate education, research and scholarship, and university and community service. In education, the Department seeks to provide a comprehensive education meeting professional guidelines (e.g., American Chemical Society, American Society for Microbiology, Forensic Education Program Accreditation Committee, American Association of Medical Colleges, etc.) for students majoring in the departmental Divisions of Chemistry, Biological Sciences, Forensic Sciences, and allied disciplines in the Baccalaureate, Masters, and Ph.D. programs; and to educate the general student body about the vitality and significance of divisional disciplines as contemporary laboratory sciences. In scholarship, the Department seeks to expand the boundaries of knowledge while simultaneously encouraging students to expand their intellectual horizons and develop critical-thinking and problem-solving skills through faculty directed independent undergraduate and graduate research. In service, faculty members are expected to be advisors, mentors, and career counselors to students and to use their expertise to support the University, the chemical, biological, and forensic science professions and the larger community.

Division Coordinators
- Biological Sciences Division:
  Dr. David Asch, Ward Beecher Hall 3003 or 4037
dkasch@ysu.edu, (330) 941-1350 or (330) 941-3601
- Forensic Science Division:
  Mr. Robert E. Wardle III, Ward Beecher Hall 5006
rewardle@ysu.edu, (330) 941-2274

Biological Sciences
(330) 941-3601
Room 4037 Ward Beecher Science Hall

Courses in Biological Sciences may be applied toward a Bachelor of Science or a Bachelor of Arts degree. The department offers specialized courses in three major divisions:

- molecular biology and microbiology
- physiology and anatomy
- evolution, ecology and environmental biology

Biological Sciences offers courses to prepare a student for a wide variety of fields and future careers including:

- dentistry
- botany
- health-related careers
- physical therapy
- medicine
- veterinary medicine
- medical technology
- microbiology
- molecular biology
- biomedical research
- biotechnology

Advisement is available concerning course selection appropriate for a specific field in biology and in the choice of a minor or minors. These degrees may be earned in eight semesters if students average 16 hours per semester.

For more information, visit Biological Sciences (http://www.ysu.edu/academics/science-technology-engineering-mathematics/biology-major/).

Professor
David K. Asch, Ph.D., Associate Professor
Michael Butcher, Ph.D., Professor
Jonathan J. Caguia, Ph.D., Associate Professor
Chester R. Cooper, Ph.D., Professor
Thomas P. Diggins, Ph.D., Professor
Diana L. Fagan, Ph.D., Professor
Jill M. Gifford, Ph.D., Associate Professor
Carl G. Johnston, Ph.D., Professor
Heather E. Lorimer, Ph.D., Associate Professor
Xiangjia Min, Ph.D., Professor
Ian J. Renne, Ph.D., Associate Professor
Stefania Panaitof, Ph.D., Assistant Professor

Majors
- BS in Biological Sciences (p. 427)
- BA in Biological Sciences (p. 426)

Certificates
- Certificate in Anatomy and Physiology (p. 430)
- Certificate in Biomedical Research (p. 430)
- Certificate in Molecular and Biotechnology (p. 431)

Minors
- Biological Sciences Minor (p. 429)

BIOL 1505 Biological and the Modern World 3 s.h.
Biological applied to critical issues of today's society. Focus on the scientific method as relevant to modern biological issues. Not applicable to the Biology major.
Gen Ed: Natural Science.

BIOL 1505L Biology and the Modern World Laboratory 1 s.h.
Student investigations in biological phenomena using a variety of laboratory approaches focused on a single theme or concept using the scientific method. Satisfies the Natural Science Laboratory requirement. Not applicable to the Biology major.

BIOL 1510 Anatomy and Physiology 1 3 s.h.
Structure, function, and clinical applications of the integument, musculature, skeletal, and nervous systems. Targeted for students in nursing and related health professions. Three hours lecture. Not applicable to the Biology major.
Prereq.: High school biology, CHEM 1501 or equivalent.
Gen Ed: Natural Science.

BIOL 1510L Anatomy and Physiology 1 Laboratory 0 s.h.

BIOL 1551 Anatomy and Physiology 2 4 s.h.
Structure, function, and clinical applications of the endocrine, cardiovascular, respiratory, renal, digestive, and reproductive systems. Targeted for students in nursing and associated health professions. Three hours lecture, two hours lab. Not applicable to the Biology major.
Prereq.: BIOL 1551.
Gen Ed: Natural Science.

BIOL 1552 Anatomy and Physiology 2 Laboratory 0 s.h.

BIOL 1555L Anatomy and Physiology 1 Laboratory 1 s.h.
Anatomical study of skeletal, muscular, and nervous systems. For students in nursing and associated health professions. Two hours of laboratory per week. Not applicable to the Biology major. BIOL 1551 must be taken either previous or concurrent.

BIOL 1556L Microbiology for the Health Professions 2 s.h.
Characteristics, epidemiology, and pathology of viruses, bacteria, and protozoa of medical significance. Other topics dealing with the control of microorganisms and food microbiology will be covered. Not applicable to a biology major. Two hours of lecture. Must be taken concurrent with BIOL 1560L or substitute.

BIOL 1560 Microbiology Laboratory for Health Professions 1 s.h.
Microscopy, cultivation, and identification of bacteria. Microbiology of foods. Disinfection techniques. Not applicable to a biology major. Three hours of laboratory per week. Must be taken concurrent with BIOL 1560.

BIOL 2601 General Biology: Molecules and Cells 4 s.h.
The chemical and physical foundations of life, structure and function of cells and organelles, metabolism, basic molecular biology and inheritance, and principles of evolution. Three hours of lecture, two hours of lab per week.
Prereq.: CHEM 1515 or concurrent enrollment in CHEM 1515.
Coreq.: BIOL 2601L.
Gen Ed: Natural Science.

BIOL 2601L General Biology: Molecules and Cells Laboratory 0 s.h.
General Biology: Molecules and Cells Laboratory.

BIOL 2602 General Biology: Organisms and Ecology 4 s.h.
The structure and function of plants and animals. Examination of the structure and functioning of organismic communities and ecosystems. Required of all biological sciences majors. Three hours of lecture, two hours of lab per week.
Prereq.: BIOL 2601 and CHEM 1515.
Gen Ed: Natural Science.

BIOL 2602H Honors General Biology: Organisms and Ecology 4 s.h.
The structure and function of plants and animals. Examination of the structure and functioning of organismic communities and ecosystems. Required of all biological sciences majors. Three hours of lecture, three hours of lab per week.
Prereq.: BIOL 2601 and CHEM 1515.
Gen Ed: Natural Science.

BIOL 2603 Integrated Biology for BS/MD 4 s.h.
Prereq.: admittance to the BS/MD program, BaccMed program, BS in Biochemistry, or Electrical and Computer Engineering with a Biomedical emphasis.

BIOL 3702 Microbiology 4 s.h.
Fundamentals of the biology of microbes. The principles of microbial structure, function, reproduction, metabolism, genetics, phylogeny, host-parasite relationships, and immunity. Fundamental technical skills acquired through laboratory experiences. Three hours lecture, three hours laboratory.
Prereq.: BIOL 2601 or BIOL 2603 and concurrent enrollment in BIOL 3702L.

BIOL 3702L Microbiology Laboratory 0 s.h.
Microbiology Laboratory.

BIOL 3703 Clinical Immunology 3 s.h.
Fundamentals of immunology, including both humoral and cellular immunological responses. Applications of immunological methods in medical research and patient treatment.
Prereq.: BIOL 2601 or BIOL 2603 and BIOL 3702 recommended.
BIOL 3703L Clinical Immunology Laboratory 1 s.h.
V DRL, ASO, febrile, latex, pregnancy, and viral tests; flocculation, precipitation, complement fixation, and titration procedures for various diseases. Three hours lab per week. Identical with MLS 3703L and MLT 3703L.
Prereq.: BIOL 2602.
Concurrent with: BIOL 3703.

BIOL 3704 Biological Anthropology 3 s.h.
The physical origins and development of the human species as a member of the primate order and the biological bases of human differences disclosed by human paleontology and archaeology. Also listed with ANTH 3703.
Prereq.: ANTH 1500 and BIOL 2601.

BIOL 3705 Introduction to Human Gross Anatomy 4 s.h.
Overview of human structure, using a regional approach to examine the functional anatomy of the musculoskeletal, nervous, and visceral systems. Three hours lecture, two hours lab.
Prereq.: BIOL 2602 or BIOL 2603.

BIOL 3705L Introduction to Human Gross Anatomy Laboratory 0 s.h.
Introduction to Human Gross Anatomy Laboratory.

BIOL 3711 Cell Biology: Fine Structure 3 s.h.
Theoretical and conceptual background necessary for understanding cellular structure-function relationships. Basic architecture of the cell, various organelles. The basic behavior of cells analyzed illustrating the integrative interaction of organelle systems.
Prereq.: BIOL 2601 or BIOL 2603.

BIOL 3716 Molecular Microbiology 1: Nucleic Acids 4 s.h.
Isolation and characterization of DNA and RNA from microbes with an emphasis on cloning, sequencing, structural characterization, expression, and phylogenetic analysis. Two hours lecture, six hours laboratory.
Prereq.: BIOL 3702 and permission of the instructor.

BIOL 3717 Molecular Microbiology 2 4 s.h.
Protein Biology. Develops the analytical skills necessary to conduct molecular biology research in the area of protein analysis and proteomics. Two hours lecture and four hours laboratory per week.
Prereq.: BIOL 3702.

BIOL 3721 Genetics 3 s.h.
Genetic material, reproductive cycles, sex determination, mitosis, meiosis, mendelism, probability linkage, genes in populations, mutation, evolution.
Prereq.: BIOL 2601 or BIOL 2603.

BIOL 3725 Mammalogy 3 s.h.
Overview of structure, function, evolutionary history, behavior, ecology, and classification of mammals. Animal groups will be studied from diverse biological points of view. Three hours lecture.
Prereq.: BIOL 2601, BIOL 2602.

BIOL 3730 Human Physiology 4 s.h.
Concepts of human physiology that focus on the regulation of homeostatic mechanisms by the neural, endocrine, cardiovascular, respiratory, and renal systems. Four hours lecture.
Prereq.: BIOL 2602 or BIOL 2603.

BIOL 3730L Human Physiology Laboratory 1 s.h.
Experimental approach to the study of human physiology that explores regulation of homeostasis by the neural, endocrine, cardiovascular, respiratory, and renal systems. Three hours laboratory.
Prereq. or concurrent: BIOL 3730.

BIOL 3740 Plant Diversity 4 s.h.
Examination of the diversity of plant species and their interaction with the environment; the morphology, reproduction and ecology of a wide variety of vascular and nonvascular plants. Three hours lecture, two hours lab.
Prereq.: BIOL 2602.

BIOL 3740L Plant Diversity Laboratory 0 s.h.
Plant Diversity Laboratory.

BIOL 3741 Animal Diversity 4 s.h.
Examination of the diversity of animal species and their interaction with the environment; the morphology, reproduction and ecology of a wide variety of invertebrate and vertebrate phyla. Three hours lecture, two hours lab.
Prereq.: BIOL 2602.

BIOL 3741L Animal Diversity Laboratory 0 s.h.
Animal Diversity Laboratory.

BIOL 3745 Plant Physiology 3 s.h.
Examination of the physiology of higher plants with emphasis on the whole plant aspects as well as on biochemical, cellular and molecular aspects of how plants function including transport and translocation of water and solutes, photosynthesis and respiration, growth and development.
Prereq.: BIOL 2602.

BIOL 3759 Evolution 3 s.h.
Examination of fundamental evolutionary mechanisms integral to such covered topics as natural selection, drift, genetic variance maintenance, gene flow consequences, phylogenetic resolution, modes of speciation, coevolution, cooperation and mating system structure. Ecological concepts will be integrated throughout.
Prereq.: BIOL 2601 and BIOL 2602 or instructor consent.

BIOL 3762 Field Botany 4 s.h.
Identification, ecology, and significance of local plants. Two hours lecture, four hours lab.
Prereq.: BIOL 2602.

BIOL 3762L Field Botany Laboratory 0 s.h.
Field Botany Laboratory.

BIOL 3780 General Ecology 5 s.h.
Examination of ecological principles affecting species distributions, interactions and biodiversity; dynamics of populations, communities and ecosystems; life history evolution; origin, maintenance and loss of genetic variation; mechanisms of speciation and extinction; experimental design and analysis. Three hours lecture, four hours lab.
Prereq.: BIOL 2602.

BIOL 3780L General Ecology Laboratory 0 s.h.
General Ecology Laboratory.

BIOL 4800 Bioinformatics 4 s.h.
Fundamentals of the theories and applications of bioinformatics. Topics include the tools and databases used to analyze DNA and protein sequences and the evolutionary relationships between sequences from different organisms. Three hours lecture, two hours of lab per week.
Prereq.: BIOL 3721 or BIOL 3759.

BIOL 4800L Bioinformatics Laboratory 0 s.h.
Bioinformatics Laboratory.

BIOL 4801 Environmental Microbiology 4 s.h.
The occurrence, detection, and control of microbes, including bacteria and viruses, in food, water, and the environment. Two hours lecture, four hours lab.
Prereq.: BIOL 3702.

BIOL 4801L Environmental Microbiology Laboratory 0 s.h.
Environmental Microbiology Laboratory.

BIOL 4802 Ecology of Lakes 3 s.h.
A study of the physical, chemical, biological, and ecological structure and function of lake ecosystems.
Prereq.: 20 s.h. of BIOL and/or GES, or permission of instructor.

BIOL 4803 Stream Ecology 3 s.h.
A study of the physical, chemical, biological, and ecological structure and function of stream ecosystems, and of their associated riparian zones.
Prereq.: 20 s.h. of BIOL and/or GES, or permission of instructor.

BIOL 4804 Aquatic Biology 3 s.h.
Ecological, physical, and chemical aspects of aquatic ecosystems. Study of the interaction between organisms and their environment.
Prereq.: BIOL 3780.
BIOL 4805 Ichnology 3 s.h.
Ecology, evolution, and taxonomy of fishes, especially those of Midwestern United States. Two hours lecture, two hours lab.
Prereq.: BIOL 3741.

BIOL 4805L Ichnology Laboratory 0 s.h.
Ichnology Laboratory.

BIOL 4806 Ecosystem Field Ecology 4 s.h.
Students will learn about destination ecosystems, including associated organisms, interactions, physical, chemical, and climatic conditions, culture, and human impacts. Can be taken more than once for different destinations. Students must be in good health, hike, swim, and handle primitive conditions. This course involves travel expenses in addition to lab fees.
Prereq.: permission from instructor.
Coreq.: 3000-level course.

BIOL 4809 The Human Microbiome 3 s.h.
Covers microbial communities and their interactions associated with the human host. Scientific literature on the identity and roles of microbes associated with the human gut, oral cavity, skin, genital-urinary tract and respiratory system will be reviewed, presented, and discussed.
Prereq.: BIOL 3702.

BIOL 4811 Comparative Biomechanics 4 s.h.
Overview of biomechanical principles involved with the structure and function of animals. Topics include mechanical properties of biomaterials, comparative muscle architecture and physiology, and locomotor mechanisms of human walking and running. Three hours lecture, two hours lab.
Prereq.: BIOL 2602 or BIOL 3705, and PHYS 1501 or PHYS 2610.

BIOL 4811L Comparative Biomechanics Laboratory 0 s.h.
Comparative Biomechanics Laboratory.

BIOL 4818 Microbiome Gut Brain Axis 3 s.h.
This course examines bidirectional interactions between the host gut microbiome community and the host central nervous system (CNS), via a complex neural, endocrine, immune, and humoral network. The class will cover associations between the gut microbiome, gut function, and a wide spectrum of CNS disorders, emotions, and stress response, with a primary focus on evaluating various dietary regimes and dietary probiotic intervention strategies.
Prereq.: BIOL 4809 or by permission of instructor.

BIOL 4822 Principles of Pharmacology 3 s.h.
Overview of drugs used for the diagnosis, prevention, and treatment of disease. Topics include mechanisms of action, therapeutic and adverse drug effects, and clinical uses for each drug category.
Prereq.: BIOL 3730.

BIOL 4823 Cancer Biology 2 s.h.
This course will present the student with the comprehensive body of knowledge concerning cancer biology. It will draw upon all areas of biological sciences; from environmental causal factors to the molecular mechanisms underlying tumor cell formation and development of malignant tumors. The scientific basis of therapies will be explored.
Prereq.: Junior standing.

BIOL 4829 Microbial Physiology 3 s.h.
This course synthesizes material covered in introductory microbiology and cell and molecular biology. Topics include biolmolecule synthesis, molecular biology, bacterial genetics, gene expression, energy production photosynthesis, bacteriophages and microbial stress response.
Prereq.: BIOL 3702 or BIOL 3711.

BIOL 4834 Advanced Physiology: Integrative Mechanisms 3 s.h.
Examination of advanced human physiology through a detailed study of selected body systems. Systems examined may include the cardio-vascular, respiratory, and renal systems, exchange dynamics among body fluid compartments, and acid-base balance. Three hours lecture.
Prereq.: BIOL 3730.

BIOL 4834L Advanced Physiology: Integrative Mechanisms Laboratory 1 s.h.
Experimental approach to the examination of advanced human physiology through a detailed study of selected body systems. Systems examined may include the cardiovascular, renal and respiratory systems, exchange dynamics among body fluid compartments, and acid-base balance. Three hours lab.
Prereq., or concurrent BIOL 4834.

BIOL 4835 Advanced Physiology: Regulatory Mechanisms 3 s.h.
Examination of advanced human physiology through a detailed study of selected body systems. Systems examined may include musculoskeletal, gastrointestinal, metabolic and thermoregulatory. Three hours lecture.
Prereq.: BIOL 3730.

BIOL 4835L Advanced Physiology: Regulatory Mechanisms Laboratory 1 s.h.
Experimental approach to the examination of advanced human physiology through a detailed study of selected body systems. Systems examined may include the musculoskeletal, gastrointestinal, metabolic and thermoregulatory. Three hours lab.
Prereq., or concurrent BIOL 4835.

BIOL 4837 Cell Biology: Protein Biology Laboratory 1 s.h.
The relationship of nucleic acid structure and protein structure will be studied in hands on series of laboratory experiments. Concepts presented will integrate the use of modern molecular biology techniques with contemporary approaches to current problems in biology. Three hours of laboratory.
Prereq.: BIOL 3711 or consent of instructor.

BIOL 4839 Selected Topics in Physiology 1 s.h.
Advanced study of topics in physiology not covered in depth in other physiology courses. May be repeated twice up to 2 s.h.
Prereq.: BIOL 3730.

BIOL 4848 Biology of Fungi 3 s.h.
Examination of fungal and fungal-like organisms with emphasis placed upon their taxonomy, phylogenetic relationships, structure, function, physiology, genetics, and ecology. Exploration of their role in agriculture, medicine, and scientific research.
Prereq.: BIOL 2602 or graduate standing.

BIOL 4849 Medical Mycology 3 s.h.
Survey of infectious diseases caused by fungi including their etiology, epidemiology, histopathology, diagnosis, and treatment. Host-parasite interactions and the environmental and molecular factors that contribute to establishment of fungal disease in humans and animals.
Prereq.: BIOL 2602.

BIOL 4850 Problems in Biology 1-3 s.h.
Special biological problems for which materials and equipment are available and for which the student is qualified.
Prereq.: Senior standing or consent of the chairperson.

BIOL 4861 Senior Biology Capstone Experience 2 s.h.
A capstone experience for the major in Biological Sciences (B.A. or B.S. degree).
Prereq.: Senior status in Biological Sciences, completion of at least one 3700 and 4800 level laboratory course.
Gen Ed: Capstone.

BIOL 4866 Forest Ecology 4 s.h.
A study of the structure, function, and management/conservation of forest ecosystems, including the biology and taxonomy of woody plants. Major emphasis on eastern North America.
Prereq.: 20 s.h. BIOL or GES, or combination thereof, or Pl.
Coreq.: BIOL 4866L.

BIOL 4866L Forest Ecology Laboratory 0 s.h.
Forest Ecology Laboratory.
Prereq.: 20 semester hours BIOL or GES, or combination thereof, or Pl.
Coreq.: BIOL 4866.
BIOL 4878 Conservation Biology 3 s.h.
A socioeconomic, political and ecological approach to issues associated with the maintenance and value of biodiversity and ecosystem services; consequences of anthropogenic climate change, fragmentation, overharvesting, extinction, and invasion of non-native species; biofuels; ecological restoration, nature reserve design and sustainability. Three hours lecture.
Prereq.: BIOL 3759 or BIOL 3780 or permission of instructor.

BIOL 4882 Mathematical Biology Research 1-3 s.h.
Introduction to research in mathematical biology through an interdisciplinary study of a topic in biology and mathematics. May be repeated once. Grading is Traditional/PR. Cross-listed: MATH 4882.
Prereq.: MATH 1571 or permission of instructor.

BIOL 4890 Molecular Genetics 3 s.h.
Examination of DNA structure, DNA replication, transcription, translation, RNA processing, and gene control in both prokaryotes and eukaryotes.
Prereq.: BIOL 3711 or BIOL 3721.

BIOL 4890L Molecular Genetics Laboratory 1 s.h.
Introduction to basic molecular techniques such as transformation, use of restriction enzymes, agarose gel electrophoresis, and polymerase chain reaction (PCR). Three hours lab.
Prereq.: BIOL 4890 or concurrent.

BIOL 4893 Biology of Proteins 2 s.h.
This course engages the student in the world of proteins, from the basic structure and function of proteins in biological systems, to the applied sciences involved in the development of commercially valuable proteins. This course extends the students previous understanding and expertise in molecular biology to emphasize proteins.
Prereq.: BIOL 3711 or BIOL 4890 or consent of instructor.

BIOL 4896 Introduction to Biomedical Research 2 s.h.
The class will introduce students to processes and strategies at the core of modern biomedical research. Students will develop an understanding of experimental design, experimental implementation, data evaluation and communication.
Prereq.: BIOL 3730.

BIOL 4897 Internship in Biomedical Research 3 s.h.
This course designed for a student pursuing the Certificate in Biomedical Research. Students enrolled in this course will be assigned to a research project in collaboration with physicians from the Mercy Health system. This course will provide the student with a comprehensive clinical research experience.
Prereq.: Accepted into Certificate in Biomedical Research program; concurrent or previously taking BIOL 4896.

BIOL 4898 Research in Physiology 3 s.h.
A comprehensive laboratory experience under the supervision of a faculty mentor. Course may be repeated once for a total of 6 s.h.
Prereq.: BIOL 3730, CHEM 3720, and acceptance into the Certificate in Anatomy and Physiology program.

BIOL 4899 Internships in the Biological Sciences 2 s.h.
Internships integrate theory and practice through supervised learning experiences. Internships are available in any area of the biological/biomedical sciences, including field research and analytical, clinical, or research laboratories. Students submit a proposal of the internship, maintain a journal of experiences, and submit a final project paper.
Prereq.: Junior or senior standing in Biological Sciences and permission of the chairperson.
All biological sciences majors must take the following courses for the BA degree.

**Prereq.:** 20 s.h. of Biological Sciences.

**BIOL 5858 Biometry 3 s.h.**
Application of fundamental theory and procedures to the statistical analysis of biological data.

**BIOL 5858 Computational Bioinformatics 3 s.h.**
Project-based learning course with a focus on using a Linux environment and PERL for processing large genomic datasets and data mining. Relational database and BioPERL will also be introduced for genomic data analysis and display. Three hours of combined lecture and lab per week.

**BIOL 5868 Gross Anatomy 1 4 s.h.**
Regional study of the human body with emphasis on functional and topographic anatomy and clinical correlations. Two hours lecture-demonstration, four hours lab.

**Prereq.:** Admission to the YSU Physical Therapy program or permission of instructor.

**BIOL 5868L Gross Anatomy 1 Laboratory 0 s.h.**
Gross Anatomy 1 Laboratory.

**BIOL 5869 Gross Anatomy 2 4 s.h.**
Regional study of the human body with emphasis on functional and topographic anatomy and clinical correlations. Two hours lecture-demonstration, four hours lab.

**Prereq.:** BIOL 5868.

**BIOL 5869L Gross Anatomy 2 Laboratory 0 s.h.**
Gross Anatomy 2 Laboratory.

**BIOL 5888 Environmental Biotechnology 3 s.h.**
This course provides an overview of environmental biotechnology, engineering fundamentals, theory, and principles in application of biological treatment to solve environmental problems. Topics include relevant biological, chemical, and ecological processes, biological treatments of waste, land, and water. Environmental biotechnology is an essential tool to help humanity face enormous environmental health challenges, especially pollution, climate change, loss of habitat, and resulting threats to wildlife and human populations, their health outcomes and survival potential. This course is designed to summarize modern insights regarding evaluation and applications of environmental biotechnology.

**Prereq.:** CHEM 3719 or CEEN 3736.

**BIOL 5888L Environmental Biotechnology Laboratory 0 s.h.**
Environmental Biotechnology Laboratory.

### Bachelor of Arts in Biological Sciences

The Bachelor of Arts is recommended only for those students who plan careers in business or secondary education careers related to the Biological Sciences. A minimum of 32 S.H. in Biological Sciences is required for the BA degree.

All biological sciences majors must take the courses as listed for the BA degree in the curriculum sheet.

The BA degree in biological sciences requires a minimum of 32 semester hours from within the Department of Biological Sciences. (Courses at the 1000 level are not applicable to a Bachelor of Arts degree.)

All biological sciences majors must take the following courses for the BA degree:

### COURSE TITLE S.H.

**FIRST YEAR STUDENT EXPERIENCE**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

**General Education Requirements**

**ENGL 1550** Writing 1 3-4
**or ENGL 1549** Writing 1 with Support 3-4

**ENGL 1551** Writing 2 3

**CMST 1545** Communication Foundations 3

**Mathematics Requirement**

Met through MATH in major

**Arts and Humanities (6 s.h.)**

Select 16 semester hours of courses in the Department of Biological Sciences at the 3000-5000 level. At least two of these courses must have a laboratory component.

**Capstone Course**

**BIOL 4861** Senior Biology Capstone Experience 2

**Electives**

Select 32 s.h. of Biological Science credit. 32

**Strongly recommended:**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 3719 &amp; 3719L</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3720 &amp; 3720L</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1501 &amp; 1501L</td>
<td>Fundamentals of Physics 1 and Fundamentals of Physics Laboratory 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1502 &amp; 1502L</td>
<td>Fundamentals of Physics 2 and Fundamentals of Physics Laboratory 2</td>
<td>4</td>
</tr>
</tbody>
</table>

**Additional electives to meet 120** 11-14

**Total Semester Hours** 120-126

1 The general biology courses are prerequisites for genetics and all core and upper-division courses.

Students seeking admission to medically related professional schools should complete the BS program.

The mathematics, physics and chemistry courses may not be taken under the credit/no credit option. (For General University Requirements (p. 19), see the Academic Policies and Procedures section of the Undergraduate Catalog.)
Recommended core curriculum meeting science requirements of medically related and other professional schools.

### Year 1

#### Fall

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2601</td>
<td>General Biology: Molecules and Cells</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1515R</td>
<td>Recitation for General Chemistry 1 (opt)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 (electives may be substituted if excused based on results of Placement Test) or Writing 1 with Support</td>
<td>3-4</td>
</tr>
</tbody>
</table>

#### Semester Hours 16-17

#### Spring

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2602</td>
<td>General Biology: Organisms and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1516R</td>
<td>Recitation for General Chemistry 2 (opt)</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2 (electives may be substituted if excused based on results of Placement Test)</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester Hours 15

### Year 2

#### Fall

Biology Core Course
Select one of the following: 3-5

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3730</td>
<td>Human Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 3711</td>
<td>Cell Biology: Fine Structure</td>
<td></td>
</tr>
<tr>
<td>BIOL 3740</td>
<td>Plant Diversity</td>
<td></td>
</tr>
<tr>
<td>MATH 1570 or MATH 1571</td>
<td>Applied Calculus 1 or Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>GER Elective (AL)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester Hours 16-18

#### Spring

Biology Core Course
Select one of the following: 3-5

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3730</td>
<td>Human Physiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 3721</td>
<td>Genetics</td>
<td></td>
</tr>
<tr>
<td>BIOL 3741</td>
<td>Animal Diversity</td>
<td></td>
</tr>
<tr>
<td>Introductory Foreign Language</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GER Elective (SI)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Electives</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester Hours 16-18

### Year 3

#### Fall

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3700-5800 course w/ lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Intermediate Foreign Language</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GER electives (PS), (SI)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester Hours 17

#### Spring

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3700-5800 course w/ lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3700-5800 course</td>
<td></td>
<td>3-4</td>
</tr>
<tr>
<td>GER electives (AL), (PS)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

### Learning Outcomes

The department’s learning outcomes for the BA in biology are as follows:

- Students will be fluent in the terminology of the biological sciences.
- Students will be competitive for entry into the workplace.
- Students will be familiar with the scientific process and the process of hypothesis testing.
- Students should be able to reason critically, both individually and in collaboration with other students.

### Bachelor of Science in Biological Sciences

(330) 941-3601

Room 4037

Ward Beecher Science Hall

The Bachelor of Science degree is recommended for those who wish to pursue careers in the biological sciences, medicine, dentistry, or other related biotech fields. A minimum of 37 s.h. in Biological Sciences is required for the BS degree.

The BS degree in biological sciences requires a minimum of 37 semester hours from within the Department of Biological Sciences. (Courses at the 1000 level are not applicable to a Bachelor of Science degree.).

### Bachelor of Science in Biological Sciences

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

### General Education Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>ENGL 1549</td>
<td>Writing 1 with Support</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement (Met with MATH 1570 in the major)</td>
<td>Mathematics Requirement</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Humanities (6 s.h.)</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Social Science (6 s.h.)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

### Natural Sciences: (This requirement is satisfied by the major requirements below)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Social and Personal Awareness (6 s.h.) 6

**Required Biology Courses (37 s.h.)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2601</td>
<td>General Biology: Molecules and Cells</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 2601L</td>
<td>and General Biology: Molecules and Cells Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2602</td>
<td>General Biology: Organisms and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 2602L</td>
<td>and General Biology: Organisms and Ecology Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 3721</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 3759</td>
<td>Evolution</td>
<td></td>
</tr>
<tr>
<td>BIOL 4861</td>
<td>Senior Biology Capstone Experience</td>
<td>2</td>
</tr>
</tbody>
</table>

Electives in Biology

24 s.h. of BIOL courses at the 3000-5000 level. At least two of these courses must have a laboratory component, with at least one at the 4800-5800 level.

**Required Support Courses**

**Mathematics - take one of the following courses (4 s.h.):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1570</td>
<td>Applied Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td></td>
</tr>
</tbody>
</table>

**Statistics - take one of the following courses (3-4 s.h.):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 5853</td>
<td>Biometry</td>
<td></td>
</tr>
<tr>
<td>STAT 3717</td>
<td>Statistical Methods</td>
<td>3-4</td>
</tr>
</tbody>
</table>

**Physics - take one of the following sequences (9-10 s.h.):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1501</td>
<td>Fundamentals of Physics 1</td>
<td>9</td>
</tr>
<tr>
<td>&amp; 1501L</td>
<td>and Fundamentals of Physics Laboratory 1</td>
<td>10</td>
</tr>
<tr>
<td>PHYS 1502</td>
<td>Fundamentals of Physics 2</td>
<td></td>
</tr>
<tr>
<td>&amp; 1502L</td>
<td>and Fundamentals of Physics Laboratory 2</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 2610</td>
<td>General Physics 1</td>
<td></td>
</tr>
<tr>
<td>&amp; 2610L</td>
<td>and General Physics Laboratory 1</td>
<td></td>
</tr>
<tr>
<td>PHYS 2611</td>
<td>General Physics 2</td>
<td></td>
</tr>
<tr>
<td>&amp; 2611L</td>
<td>and General Physics laboratory 2</td>
<td></td>
</tr>
</tbody>
</table>

**Chemistry (16 s.h.):**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1515</td>
<td>General Chemistry 1</td>
<td>9</td>
</tr>
<tr>
<td>&amp; 1515L</td>
<td>and General Chemistry 1 Laboratory</td>
<td>10</td>
</tr>
<tr>
<td>CHEM 1516</td>
<td>General Chemistry 2</td>
<td></td>
</tr>
<tr>
<td>&amp; 1516L</td>
<td>and General Chemistry 2 Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 3719</td>
<td>Organic Chemistry 1</td>
<td></td>
</tr>
<tr>
<td>&amp; 3719L</td>
<td>and Organic Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 3720</td>
<td>Organic Chemistry 2</td>
<td></td>
</tr>
<tr>
<td>&amp; 3720L</td>
<td>and Organic Chemistry 2 Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

**Minor and Electives to reach 120** 47

**Total Semester Hours** 120-124

Enrollment in the recitation sections are recommended for PHYS 1501 and the above Chemistry courses. Recitation Chemistry courses may not count toward the Chemistry minor.

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 2601</td>
<td>General Biology: Molecules and Cells</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 2601L</td>
<td>and General Biology: Molecules and Cells Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1 (electives may be substituted if excused based on results of Placement Test) or Writing 1 with Support</td>
<td>3-4</td>
</tr>
<tr>
<td>CHEM 1515</td>
<td>General Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 1515L</td>
<td>and General Chemistry 1 Laboratory</td>
<td></td>
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</tbody>
</table>

** Semester Hours** 15-16

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2602</td>
<td>General Biology: Organisms and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 2602L</td>
<td>and General Biology: Organisms and Ecology Laboratory 1</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2 (electives may be substituted if excused based on results of Placement Test)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1516</td>
<td>General Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 1516L</td>
<td>and General Chemistry 2 Laboratory</td>
<td></td>
</tr>
<tr>
<td>GER Elective (CMST 1545)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Hours** 14

**Year 2**

**Fall**

General Elective 3

Biology Elective 4

MATH 1570 or MATH 1571 4

OR

BIOL 3721 or BIOL 3759 3

CHEM 3719 4

**Semester Hours** 18

**Spring**

Biology Elective 4

STAT 3717 or BIOL 5853 3-4

CHEM 3720 4

GER elective (SI) 3

**Semester Hours** 14-15

**Year 3**

**Fall**

BIOL 3700-5800 course 4

PHYS 1501 & 1501L 5

GER Elective (PS) 3

GER Elective (SI) 3

Elective 4

**Semester Hours** 19

**Spring**

BIOL 3700-5800 course 4

PHYS 1502 & 1502L 4

GER Elective (AL) 3

GER Elective (PS) 3

General Elective 3

**Semester Hours** 17

**Year 4**

**Fall**

BIOL 5800 course 4

GER elective (AL) 3

General Electives 6

**Semester Hours** 13

**Spring**

BIOL 3700-5800 course 4

BIOL 4861 2

General Electives 5-7

**Semester Hours** 11-13

**Total Semester Hours** 121-125
Learning Outcomes
The student learning outcomes for the major in biological sciences are as follows:

- Students will be prepared for entry into professional health or research related schools, post-graduate (MS, PhD) programs, or the workplace.
- Students will master the subjects found on standardized tests (molecular biology, physiology, immunology) required for entrance into professional schools (MCAT, GRE, etc.).
- Students will demonstrate an understanding of fundamental biological principles and their application.
- Students should be able to reason critically, both individually and in collaboration with other students.

Bachelor of Science in Biological Sciences BaccMed Track
The BS in Biological Sciences - BaccMed Track degree is competitive program recommended for those who wish to pursue careers in medicine.

Learning Outcomes
The student learning outcomes for the major in Biological Sciences are as follows:

- Students will be prepared for entry into professional health or research related schools, post-graduate (MS) programs, or the workplace.
- Students will master the subjects found on standardized tests (molecular biology, physiology, immunology) required for entrance into professional schools (MCAT, GRE, etc.).
- Students will demonstrate an understanding of fundamental biological principles and their application.
- Students should be able to reason critically, both individually and in collaboration with other students.

The BS degree in Biological Sciences requires a minimum of 37 semester hours from within the Department of Biological Sciences. (Courses at the 1000-level are not applicable to a BS degree.) Required courses may not be taken as credit/no credit.

All Biological Science majors following the BaccMed track must satisfy the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
</tr>
<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
</tr>
</tbody>
</table>

General Education Requirements

| ENGL 1550 | Writing 1 | 3 |
| ENGL 1551 | Writing 2 | 3 |
| CMST 1545 | Communication Foundations | 3 |
| MATH 1581H | Honors Biomathematics 2 (MATH 1571 is now an allowed prerequisite for MATH 1581H) | 4 |

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model. Listed GER courses below are required for this major.

Arts and Humanities 6

Natural Science (2 courses, one must include a lab)

| CHEM 1515 & 1515L | General Chemistry 1 and General Chemistry 1 Laboratory | |
| CHEM 1516 & 1516L | General Chemistry 2 and General Chemistry 2 Laboratory | |

Social Science

| SOC 1500 | Introduction to Sociology |  |
| PSYC 1560 | General Psychology |  |

Social and Personal Awareness

| PHLT 1531 | Fundamentals of Public Health |  |
| SOC 3745 | Sociology of Health, Illness, and Healthcare |  |

Required BIOL Courses (21 s.h.):

| BIOL 2603 | Integrated Biology for BS/MD | 4 |
| BIOL 3711 | Cell Biology: Fine Structure | 3 |
| BIOL 3721 | Genetics | 3 |
| BIOL 3730 | Human Physiology | 4 |
| BIOL 3730L | Human Physiology Laboratory | 1 |
| BIOL 3705 | Introduction to Human Gross Anatomy | 4 |
| BIOL 3705L | Introduction to Human Gross Anatomy Laboratory | 0 |
| BIOL 4851 | Senior Biology Capstone Experience | 2 |

In addition to the 21 s.h. Required BIOL Courses, students must take a minimum of 16 s.h. elective BIOL courses. These must be 3700 level or higher. A minimum of two BIOL electives must have a laboratory component. One of these labs must be at 4800 level or above.

Required Support Courses (54 s.h.):

| CHEM 1515 & 1515L | General Chemistry 1 and General Chemistry 1 Laboratory | 4 |
| CHEM 1516 & 1516L | General Chemistry 2 and General Chemistry 2 Laboratory | 4 |
| CHEM 3719 & 3719L | Organic Chemistry 1 and Organic Chemistry 1 Laboratory | 4 |
| CHEM 3720 & 3720L | Organic Chemistry 2 and Organic Chemistry 2 Laboratory | 4 |
| CHEM 3785 | Biochemistry 1 | 3 |
| PHYS 2610 | General Physics 1 | 4 |
| PHYS 2610L | General Physics Laboratory 1 | 1 |
| PHYS 2611 | General Physics 2 | 4 |
| PHYS 2611L | General Physics Laboratory 2 | 1 |
| MATH 1572 | Calculus 2 | 4 |
| STAT 3717 | Statistical Methods (or Biol 5853, Biometry, 4 sh) | 4 |
| SOC 1500 | Introduction to Sociology | 3 |
| SOC 3745 | Sociology of Health, Illness, and Healthcare | 3 |
| PSYC 1560 | General Psychology | 3 |
| PHLT 1531 | Fundamentals of Public Health | 3 |
| PHLT 3709 Elements of Urban Environmental Health Practices | 3 |
| STEM 4809 | Primary Care Medical Practices | 2 |

Free Electives Additional coursework as needed to reach 120 s.h. 9

Total Semester Hours 120-121

Minor in Biological Sciences

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2601</td>
<td>General Biology: Molecules and Cells</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2601L</td>
<td>General Biology: Molecules and Cells Laboratory</td>
<td>0</td>
</tr>
<tr>
<td>BIOL 2602</td>
<td>General Biology: Organisms and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2602L</td>
<td>General Biology: Organisms and Ecology Laboratory</td>
<td>0</td>
</tr>
</tbody>
</table>

Core Courses

Select one of the following:

| BIOL 3711 | Cell Biology: Fine Structure |  |
| BIOL 3721 | Genetics |  |
| BIOL 3730 & 3730L | Human Physiology and Human Physiology Laboratory | |
Certificate in Biomedical Research

The certificate in Biomedical Research is designed to better prepare undergraduate students interested in pursuing advanced degrees in biomedical research (e.g., MS and PhD programs) as well as professional degrees in medicine, dentistry, or physical therapy. The certificate will ensure that students not only focus their education toward disciplines related to biomedicine, but also gain comprehensive clinical research experience. This program will bring together Youngstown State University undergraduates with Mercy Health resident physicians to work on a collaborative, clinical research project.

Admission Requirements:

- Minimum grade point average of 3.4 (on a 4.0 scale) in the prerequisite courses
- Submission of the CBR application and two CBR recommendation forms
- Interview with the CBR Program Coordinator

Program Requirements:

- Must complete 26-29 semester hours, including all required courses and 9-12 hours of electives.
- Must maintain a grade point average of 3.0 or better in the required and elective courses.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3730</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3730L</td>
<td>Human Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 3705 &amp; 3705L</td>
<td>Introduction to Human Gross Anatomy and Introduction to Human Gross Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4896</td>
<td>Introduction to Biomedical Research</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 5853</td>
<td>Biometry 2</td>
<td>4</td>
</tr>
<tr>
<td>or STAT 3717</td>
<td>Statistical Methods</td>
<td>1</td>
</tr>
</tbody>
</table>

| Select 9-12 s.h. of CBR Elective Courses from the following: |
|-----------------|-----------------|-----|
| BIOL 3703 | Clinical Immunology | 3 |
| BIOL 3725 | Mammalogy | 3 |
| BIOL 4809 | The Human Microbiome | 3 |
| BIOL 4822 | Principles of Pharmacology | 3 |
| BIOL 4823 | Cancer Biology | 2 |
| BIOL 4829 | Microbial Physiology | 3 |
| BIOL 4830 & 4830L | Functional Neuroanatomy and Functional Neuroanatomy Laboratory | 4 |
| BIOL 4834 | Advanced Physiology: Integrative Mechanisms | 3 |
| BIOL 4834L | Advanced Physiology: Integrative Mechanisms Laboratory | 1 |
| BIOL 4835 | Advanced Physiology: Regulatory Mechanisms | 3 |
| BIOL 4835L | Advanced Physiology: Regulatory Mechanisms Laboratory | 1 |
| BIOL 5813 & 5813L | Vertebrate Histology and Vertebrate Histology Laboratory | 4 |
| BIOL 5824 & 5824L | Behavioral Neuroscience and Behavioral Neuroscience Laboratory | 4 |
| BIOL 5832 | Principles of Neurobiology | 4 |
| BIOL 5853 | Biometry 2 | 3 |
| BIOL 5868 & 5868L | Gross Anatomy 1 and Gross Anatomy 1 Laboratory | 4 |
| BIOL 5869 & 5869L | Gross Anatomy 2 and Gross Anatomy 2 Laboratory | 4 |

1 Students must enroll for BIOL 4897 Internship in Biomedical Research for two consecutive semesters.
2 Students may take BIOL 5853 and STAT 3717. In this case, BIOL 5853 will serve as an elective course in fulfillment of the CBR.

Learning Outcomes

- Demonstrate both a theoretical and practical application of natural sciences to clinical medicine
- Demonstrate mastery of the scientific method and technical skills specific to conducting biomedical research investigations
- Demonstrate mastery of locating, critically evaluating and utilizing biomedical primary literature
- Demonstrate mastery of oral and written scientific communication

Certificate in Anatomy and Physiology

The certificate in Anatomy and Physiology is an option within the Bachelor of Science degree in Biological Sciences. The program is designed for undergraduate and post-baccalaureate students that want to better prepare for careers in: advanced degrees in anatomy and physiology, professional degrees in medicine, dentistry or veterinary medicine or employment in industry.

The Department of Biological Sciences will grant admission to the Certificate in Anatomy and Physiology program. Due to the research-intensive aspects of this program, a limited number of competitive candidates will be selected for participation in the certificate. Minimum requirements for admission are:

- Students must have a minimum grade point average of 2.7 (on a 4.0 scale) in the prerequisite courses.
- Submission of two academic letters of recommendation.
- Interview with the members of the division of Anatomy and Physiology.

To receive the Certificate in Anatomy and Physiology, students must complete 26-29 semester hours and maintain a grade point average of 3.0 or better in their required and elective courses in the certificate program. A total of 17 semester hours will be from required courses, including advanced courses in anatomy and physiology that have both a lecture and laboratory component. The remaining 9-12 semester hours will be selected by each student from a list of elective courses, which allows a student to tailor a portion of their course work to individual interest within the areas of anatomy and physiology. Students must also complete the required prerequisites to the upper-division courses, and cannot take a course on a credit/no credit basis.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 5813 &amp; 5813L</td>
<td>Vertebrate Histology and Vertebrate Histology Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>
## Certificate in Molecular Biology and Biotechnology

The Certificate in Molecular Biology and Biotechnology is designed to better prepare undergraduate and post-baccalaureate students interested in pursuing the following areas:

1. Advanced degrees molecular biology or applied biosciences and bioengineering.
2. Professional degrees in biomedical sciences, biochemistry and gene technology programs.
3. Employment in industry with a focus on biotechnology.

Many of the advances in Biological Sciences in the second half of the 20th century and the first decades of the 21st century have occurred in the fields of molecular biology and genetics. We have entered an era where genomic sequencing and the examination of entire biological systems is commonplace. In this era of genomic sequencing and genetic engineering of a whole host of organisms a knowledge of Molecular biology is essential. The Bachelor of Science in Molecular Biology and Biotechnology is designed to prepare students for careers in fields where an in depth knowledge of molecular biology and biotechnology are needed.

The current Bachelor of Science in Biological Sciences is very broad. No clear track to knowledge and skills in Molecular Biology and Biotechnology is discernable. In this program students will be prepared for research or technically intensive graduate programs and career positions requiring a knowledge set and expertise in molecular biology/ biotechnology. Also students from this program that choose a public policy career will be better informed of the issues facing society in regards to molecular biology than their peers.

This program is aimed to be an interface between fundamental basic sciences and applied sciences. The degree will require almost no additional resources from the University. The Department of Biological Sciences and the STEM college already have the faculty, research base, and courses to implement this program. The Bachelors degree in Molecular Biology and Biotechnology will simply clarify for students a pathway to acquiring a specific set of skills and knowledge that are already available at Youngstown State University.

The B.S. Certificate in Molecular Biology and Biotechnology is designed to give the student a competitive edge in obtaining career opportunities in pharmaceuticals, biomedical, biotechnology, recombinant DNA technology based fields as well a broader opportunities. This is a research and techniques focused curriculum that emphasizes the molecular biology sciences.

### Prerequisites for admission to the Molecular Biology and Biotechnology certificate.

These prerequisite courses are designed to select for the students that will be successful in the molecular biology and biotechnology fields. They all apply to the BS or BA degree program.

### Required Certificate Courses

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3721</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3702 &amp; 3702L</td>
<td>Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3711</td>
<td>Cell Biology: Fine Structure</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total of Prerequisites BIOL courses: 14-15 s.h.**

### Elective Certificate Courses

Pick three courses from the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3775 &amp; 3775L</td>
<td>Comparative Vertebrate Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4822</td>
<td>Principles of Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4830 &amp; 4830L</td>
<td>Functional Neuroanatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5832</td>
<td>Principles of Neurobiology</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5833</td>
<td>Mammalian Endocrinology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4835 &amp; 4835L</td>
<td>Advanced Physiology: Regulatory Mechanisms</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 4836 &amp; 4836L</td>
<td>Cell Biology: Molecular Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5844</td>
<td>Physiology of Reproduction</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5868 &amp; 5868L</td>
<td>Gross Anatomy 1 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5869 &amp; 5869L</td>
<td>Gross Anatomy 2 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 5872</td>
<td>Microbial Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5890</td>
<td>Biochemistry 1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5821</td>
<td>Gene Manipulation</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5827</td>
<td>Biochemistry 1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5829</td>
<td>Microbial Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal of required BIOL courses: 15 s.h.**

Biochemistry 1 can replace the chemistry recitation sections in satisfying the Chemistry minor. These courses are designed to give the student a firm foundation for molecular biology and the applied sciences in molecular biology.
Elective certificate BIOL courses. Pick at least two lecture courses and one lab course from the following (6-8 s.h.)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3759</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3703</td>
<td>Clinical Immunology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 3703L</td>
<td>Clinical Immunology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 4890L</td>
<td>Molecular Genetics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 4837</td>
<td>Cell Biology: Protein Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 4836</td>
<td>Cell Biology: Molecular Mechanisms</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4801 &amp; 4801L</td>
<td>Environmental Microbiology and Environmental Microbiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3730</td>
<td>Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>or BIOL 3745</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>or BIOL 4829</td>
<td>Microbial Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4893</td>
<td>Biology of Proteins</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 4822</td>
<td>Principles of Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 4823</td>
<td>Cancer Biology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 4848</td>
<td>Biology of Fungi</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5823</td>
<td>Advanced Eukaryotic Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5840</td>
<td>Advanced Microbiology</td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal of elective BIOL courses: 6-8 s.h.

Learning Outcomes

- The student will learn research approaches to modern questions in molecular biology by experiencing a research intensive environment.
- The student will learn and master scientific approaches and perspective of problems involving the molecular biology of living organisms. With his molecular perspective and context, will develop in the student a high level of problem solving ability.
- The student will become skilled in biotechnology techniques and methods.

Chemical Sciences

Chemistry

Ward Beecher Science Hall, Room 5053

Youngstown State University

Youngstown, OH 44555

(330) 941-3664

Dr. Tim R. Wagner, Chair (trwagner@ysu.edu)

The Division of Chemistry within the Department of Chemical and Biological Sciences is comprised of 14 full-time faculty, 10 adjunct & part time faculty, 3 staff members, over 100 majors in its BS & BA Chemistry and BS Biochemistry programs, and an active MS program. The division is exceptionally well-equipped in research instrumentation, and offers a rich, hands-on 'learning through research' experience for its students. State-of-the-art laboratory facilities include NMR, X-ray diffraction (powder and single crystal), electron microscopy (scanning & transmission), and a variety of analytical instrumentation. As part of the College of STEM, the division also participates in the YSU Ph.D. program in Materials Science and Engineering.

Our BS Chemistry program is accredited by the American Chemical Society (ACS), one of the largest scientific societies in the world. Students completing an accredited program are considered to be especially well-trained for the chemistry profession, thus the BS degree is recommended for those students who plan to make a career in industrial chemistry or pursue a graduate degree in chemistry. The BA degree is recommended for those who plan to go into a medical, pharmacy, or dental field and for those who plan to enter business or secondary education careers related to chemistry. The BS Biochemistry degree integrates the chemical and biological sciences for students interested in developing a deep understanding of the molecular and chemical processes of living organisms. Students completing this program will be especially well-prepared for further studies in medicine or graduate school programs in biochemistry, or for related careers in the chemical industry.

Each student majoring in chemistry or biochemistry will be assigned a faculty advisor by the department. The advisor will discuss the overall curriculum necessary for your degree program and will assist you in the preparation of a suitable course sequence and choice of a minor or minors if applicable.

For further information, click on the tabs above or visit the Chemistry (http://chemistry.ysu.edu/) home page.

Chair

- Timothy R. Wagner, Ph.D., Professor, Chair
- Christopher Arntsen, Ph.D., Assistant Professor
- Ganesaratnam K. Balendiran, Ph.D., Professor
- Douglas T. Genna, Ph.D., Associate Professor
- Allen D. Hunter, Ph.D., Professor
- John A. Jackson, Ph.D., Professor
- Brian D. Leskiw, Ph.D., Professor
- Clovis Linkous, Ph.D., Professor
- Peter Norris, Ph.D., Professor
- Michael A. Serra, Ph.D., Associate Professor
- Josef B. Simeonsson, Ph.D., Professor
- Wim F.A. Steelant, Ph.D., Professor
- Nina V. Stourman, Ph.D., Associate Professor
- Jennifer R. Miller, M.S., Lecturer
- Janelle Russell, M.S., Lecturer
- Stephen Tavoni, M.S., Lecturer

Majors

- BS in Chemistry (p. 436)
- BA in Chemistry (p. 435)
- BS in Biochemistry (p. 438)
- BS in Biochemistry, BaccMed Track (p. 439)

Minors

- Chemistry Minor (p. 441)
CHEM 1500  Chemistry in Modern Living  3 s.h.
Introduction to basic chemical concepts, the scientific method, and the
impact of chemistry on human life and society. Examples may include water
treatment, air quality, plastics, drugs, cosmetics, energy resources, food, and
the chemical basis of life. Not intended for Chemistry majors.
Gen Ed: Natural Science.
CHEM 1500L  Chemistry in Modern Living Laboratory  1 s.h.
Introduction to basic laboratory techniques designed to supplement
CHEM 1500. Three hours per week.
Concurrent with: CHEM 1500.
CHEM 1501  An Introduction to Chemistry  3 s.h.
Metric units, dimensional analysis, chemical nomenclature, the mole
concept, chemical stoichiometry. Emphasis on problem solving and the
mathematics required for success in the study of chemistry. For students
without high school chemistry and others needing preparation for CHEM 1510
or CHEM 1515. Three hours lecture, no laboratory.
Prereq.: "C" or better in MATH 1510 or Level 20 on the MPT or one unit each of
high school algebra and geometry.
CHEM 1505R  Recitation for Allied Health Chemistry 1  1 s.h.
Discussion and problem solving exercises to complement and enhance study in
CHEM 1505.
Concurrent with: CHEM 1505.
CHEM 1506R  Recitation for Allied Health Chemistry 2  1 s.h.
Discussion and problem solving exercises to complement and enhance study in
CHEM 1506.
Concurrent with: CHEM 1506.
CHEM 1510  Chemistry for the Allied Health Sciences  4 s.h.
An overview of general, organic, and biochemistry. General chemistry
introduces basic principles of chemistry. Organic chemistry examines the
physical and chemical properties of molecules based on their functional
groups. Biochemistry applies these chemistry concepts to the living organism.
Intended for majors in allied health and other applied sciences. Three hours
lecture, three hours laboratory.
Prereq.: "C" or better CHEM 1501 or equivalent, Level 20 or better on the MPT.
Gen Ed: Natural Science.
CHEM 1510L  Chemistry for the Allied Health Sciences Laboratory  0 s.h.
Laboratory for the allied health chemistry course.
Concurrent: CHEM 1510.
CHEM 1510R  Chemistry for the Allied Health Sciences Recitation  1 s.h.
Discussion and problem solving exercises to complement and enhance study in
CHEM 1510.
Concurrent: CHEM 1510.
CHEM 1515  General Chemistry 1  3 s.h.
An introduction to the fundamental principles of chemistry, including
measurement and calculation; chemical stoichiometry; the properties of
gases; atomic and molecular structure; bonding; thermochemistry;
and periodic properties. Intended for majors in the natural sciences and
engineering. Three hours lecture.
Prereq.: "C" or better in CHEM 1501 or equivalent; "C" or better in MATH 1513
or "C" or better in MATH 1510.
Coreq.: CHEM 1515L; CHEM 1515R if major or repeating CHEM 1515.
Gen Ed: Natural Science.
CHEM 1515L  General Chemistry 1 Laboratory  1 s.h.
Quantitative experiments focusing on topics covered in CHEM 1515 lectures.
Three hours lab.
Prereq.: "C" or better in CHEM 1501 or equivalent; "C" or better in MATH 1513
or "C" or better in MATH 1510.
Coreq.: CHEM 1515.
CHEM 1515R  Recitation for General Chemistry 1  1 s.h.
Discussion and problem solving based on current material in CHEM 1515.
Required for chemistry majors or for those repeating CHEM 1515.
Concurrent with: CHEM 1515.
CHEM 1516  General Chemistry 2  3 s.h.
A continuation of the study of the principles of chemistry, including solution
properties; acids and bases; chemical equilibrium; thermodynamics; reaction
kinetics; and electrochemistry. Intended for majors in the natural sciences and
engineering. Three hours lecture.
Prereq.: "C" or better in CHEM 1515 and "C" or better in CHEM 1515L.
Coreq.: CHEM 1516L; CHEM 1516R if major or repeating CHEM 1516.
Gen Ed: Natural Science.
CHEM 1516L  General Chemistry 2 Laboratory  1 s.h.
Quantitative experiments focusing on topics covered in CHEM 1516 lectures.
Three hours lab.
Prereq.: "C" or better in CHEM 1515L; "C" or better in CHEM 1515.
Coreq.: CHEM 1516.
CHEM 1516R  Recitation for General Chemistry 2  1 s.h.
Discussion and problem solving based on current material in CHEM 1516.
Required for chemistry majors or for those repeating CHEM 1516.
Concurrent with: CHEM 1516.
CHEM 1520  Allied Health Chemistry for Online Programs  3 s.h.
An overview of general, organic, and biochemistry. General chemistry
introduces basic principles of chemistry. Organic chemistry examines the
physical and chemical properties of molecules based on their functional
groups. Biochemistry applies these chemistry concepts to the living organism.
Intended for students in the accelerated RN to BSN program.
Gen Ed: Natural Science.
CHEM 2602  African and African-American Contributions to Science  3 s.h.
Introduction to basic science concepts, the scientific method, and the impact
of chemistry as a central science on society. Examples include works of
African-American scientists.
CHEM 2604  Quantitative Analysis  5 s.h.
Chemical equilibrium, stoichiometry, theory of errors, and volumetric and
grainmetric procedures as applied to quantitative determinations. Introduction
to electroanalytical, chromatographic and spectrophotometric methods.
Emphasis on development of technique. Three hours lecture, six hours lab.
Prereq.: CHEM 1516.
CHEM 2604L  Quantitative Analysis Laboratory  0 s.h.
Quantitative Analysis Laboratory.
CHEM 2650  Introduction to Undergraduate Research  1-2 s.h.
Introduction to the methods of chemical research under the direction of a
faculty member. May include literature search and analysis, instructional
laboratory development, and/or original basic or applied research. May be
repeated to a maximum of 4 s.h.
Prereq. or concurrent: CHEM 1516 and approval of department chairperson.
CHEM 3719  Organic Chemistry 1  4 s.h.
Organic compounds, reactions and theories. Typical preparations and
procedures of analysis. Three hours lecture, three hours lab-discussion.
Prereq.: "C" or better in CHEM 1516.
CHEM 3719L  Organic Chemistry 1 Laboratory  0 s.h.
Organic Chemistry 1 Laboratory.
CHEM 3719R  Organic Chemistry Recitation  1 s.h.
An introduction to the preparation and analysis of organic compounds.
Discussion of CHEM 3719 material and approaches to problem solving.
Required for chemistry majors.
Concurrent with: CHEM 3719.
CHEM 3720  Organic Chemistry 2  4 s.h.
Organic compounds, reactions and theories. Typical preparations and
procedures of analysis. Three hours lecture, three hours lab-discussion.
Prereq.: "C" or better in CHEM 3719.
CHEM 3720L  Organic Chemistry 2 Laboratory  0 s.h.
Organic Chemistry 2 Laboratory.
CHEM 3720R Organic Chemistry Recitation 2 1 s.h.
An introduction to the preparation and analysis of organic compounds. Discussion of CHEM 3720 material and approaches to problem solving. Required for chemistry majors.
Concurrent with: CHEM 3720.

CHEM 3729 Inorganic Chemistry 3 s.h.
Fundamental principles underlying the structure, bonding, and properties of the elements and molecular, solid state, and coordination compounds.
Prereq. or concurrent: CHEM 3729.

CHEM 3739 Physical Chemistry 1 3 s.h.
Principles and applications of thermodynamics and kinetics to chemical systems.
Prereq.: "C" or better in CHEM 3720, PHYS 2610, MATH 1572.

CHEM 3739L Physical Chemistry 1 Laboratory 1 s.h.
Quantitative thermodynamic and kinetic measurements of chemical systems. Prereq. or Coreq. CHEM 3739.

CHEM 3740 Physical Chemistry 2 3 s.h.
Principles and applications of quantum mechanics and statistical thermodynamics to chemical systems. Three hours lecture.
Prereq.: "C" or better in CHEM 3739; PHYS 2611, MATH 2673.

CHEM 3740L Physical Chemistry 2 Laboratory 1 s.h.
Spectroscopy and computational measurements of chemical systems. Prereq. or Coreq.: CHEM 3740.

CHEM 3761 Introduction to Polymer Chemistry 1 s.h.
Survey of polymer chemistry for representative classes of organic polymers, their preparation, characterization, and structure-property relationships.
Prereq.: CHEM 3720.

CHEM 3764 Chemical Toxicology 3 s.h.
Introduction to the basic principles of toxicology; disposition of toxic agents, focus on the effect that chemical structure has on biotransformation and the mechanism of action of chemicals on living organisms. Prereq.: CHEM 3720.

CHEM 3785 Biochemistry 1 3 s.h.
Structure and function of proteins, nucleic acids, and carbohydrates. Includes techniques of protein purification and analysis, the study of enzyme catalysis and kinetics. Study of the organization and regulation of metabolic pathways: glycolysis, the citric acid cycle, and oxidative phosphorylation.
Prereq.: "C" or better in CHEM 3720.

CHEM 3785L Biochemistry Laboratory 1 s.h.
Analysis and separation techniques of biochemistry. Three hours lab-discussion.
Prereq. or concurrent: CHEM 3785.

CHEM 3786 Biochemistry 2 3 s.h.
Continues the study of the organization and regulation of metabolic pathways: glycolysis, the pentose phosphate pathway, amino acid, lipid, and nucleic acid metabolism. Biochemical information pathways including replication, transcription, and translation followed by the regulation of gene expression.
Prereq.: "C" or better in CHEM 3785.

CHEM 3790 Undergraduate Seminar 1 s.h.
Students participate in departmental seminars and present a seminar to the class. May be repeated once.
Prereq. or concurrent: CHEM 2604 and CHEM 3720.

CHEM 4850 Chemistry Research 1 s.h.
Research planning, design, and execution including literature survey techniques, proposal writing, and critical scientific analysis. The student gives an oral presentation of a research proposal for CHEM 4850L, or on another topic as approved by the instructor.
Prereq.: CHEM 2604 or CHEM 3719 and approval of department chairperson.
Gen Ed: Capstone.

CHEM 4851 Chemistry Research Project 2-3 s.h.
Research participation under the direction of a faculty member. The student prepares an acceptable written report on the completed project. May be repeated to a maximum of 5 semester hours. Prereq. CHEM 4850 and approval of department chairperson.

CHEM 4851A Chemistry Research Project Biochemistry 2-3 s.h.
Research participation under the direction of a faculty member. The student prepares an acceptable written report on the completed project. May be repeated to a maximum of 5 semester hours. Prereq. CHEM 4850 and approval of department chairperson. 2-3 s.h.

CHEM 4851B Chemistry Research Project Analytical 2-3 s.h.
Research participation under the direction of a faculty member. The student prepares an acceptable written report on the completed project. May be repeated to a maximum of 5 semester hours. Prereq. CHEM 4850 and approval of department chairperson. 2-3 s.h.

CHEM 4851C Chemistry Research Project Materials 2-3 s.h.
Research participation under the direction of a faculty member. The student prepares an acceptable written report on the completed project. May be repeated to a maximum of 5 semester hours. Prereq. CHEM 4850 and approval of department chairperson.

CHEM 4851D Chemistry Research Project Organic 2-3 s.h.
Research participation under the direction of a faculty member. The student prepares an acceptable written report on the completed project. May be repeated to a maximum of 5 semester hours. Prereq. CHEM 4850 and approval of department chairperson.

CHEM 4851F Chemistry Research Project Physical 2-3 s.h.
Research participation under the direction of a faculty member. The student prepares an acceptable written report on the completed project. May be repeated to a maximum of 5 semester hours. Prereq. CHEM 4850 and approval of department chairperson.

CHEM 4860 Regulatory Aspects of Industrial Chemistry 2 s.h.
Roles and responsibilities of industrial chemists. Industrial hygiene and safety. Industrial chemical processes, their waste products, their environmental effects, and the treatment of pollutants. Governmental regulations relating to waste disposal, product safety, occupational safety, resource conservation, environmental protection, and problems of awareness and compliance.
Prereq.: CHEM 3720.

CHEM 4891 Special Topics 1-3 s.h.
Topics selected by the faculty from fields of current research interest or of special emphasis. May be repeated with different topics.

CHEM 5804 Chemical Instrumentation 4 s.h.
The theoretical foundations of instrumental procedures and the use of instruments in analytical work. Two hours lecture, six hours lab.
Prereq.: CHEM 3739.

CHEM 5804L Chemical Instrumentation Laboratory 0 s.h.
Chemical Instrumentation Laboratory.

CHEM 5821 Intermediate Organic Chemistry 3 s.h.
An intermediate treatment of organic chemistry building on the principles introduced at the sophomore level. Emphasis on curved-arrow notation in mechanism and the planning of organic syntheses. Structural analysis of organic compounds using NMR, IR and MS and the application of structural knowledge to questions of mechanism.
Prereq.: CHEM 3720.
Bachelor of Arts in Chemistry

**Prerequisites and Corequisites**

**CHEM 3729** and **CHEM 3740**.

**CHEM 3729** or **CHEM 3740** (may be concurrent).

**CHEM 3739**. Preparation of typical inorganic compounds and their characterization. Six hours lecture-discussion. Prereq. or Coreq.: CHEM 3729 and CHEM 3739.

**CHEM 3740**. Reactions and descriptive chemistry of transition metal, organometallic, and main-group compounds.

**CHEM 3750**. Reading and descriptive chemistry of transition metal, organometallic, and main-group compounds.

**CHEM 5822** Advanced Organic Laboratory 4 s.h.

An advanced approach to the applications of organic chemistry in the laboratory. Synthesis and purification of organic molecules using modern techniques, structure elucidation using spectroscopic techniques. Lecture discussion includes use of instrumentation, planning of practical syntheses, use of the primary chemical literature and safety in the laboratory. Two hours lecture, six hours lab.

**Prereq.:** CHEM 3720.

**CHEM 5822L** Advanced Organic Laboratory 0 s.h.

Advanced Organic Laboratory.

**CHEM 5830** Intermediate Inorganic Chemistry 2 s.h.

Reactions and descriptive chemistry of transition metal, organometallic, and main-group compounds.

**Prereq.:** CHEM 3729, CHEM 3740 (may be concurrent).

**CHEM 5831L** Inorganic Chemistry Laboratory 2 s.h.

Preparation of typical inorganic compounds and their characterization. Six hours lab-discussion. Prereq. or Coreq.: CHEM 3729 and CHEM 3739.

**CHEM 5832** Solid State Structural Methods 3 s.h.

The determination of structures of biological, organic, and inorganic materials in the solid state. Introduction to the crystalline state, defects, diffraction of waves, powder and single crystal diffraction methods of neutron and x-ray analysis, electron microscopy, and solid state NMR. Two hours lecture, three hours lab.

**Prereq.:** CHEM 3729.

**CHEM 5832L** Solid State Structural Methods Laboratory 0 s.h.

Solid State Structural Methods Laboratory.

**CHEM 5836** Quantum Chemistry 3 s.h.

Basic principles of quantum chemistry, with applications to problems in molecular structure, spectroscopy and thermodynamics.

**Prereq.:** CHEM 3740.

**CHEM 5861** Polymer Science 1: Polymer Chemistry and Plastics 3 s.h.

Preparation, characterization, structure-property relationships, morphology, and uses of the major commercial polymers. Two hours lecture, three hours lab.

**Prereq.:** CHEM 3739.

**CHEM 5861L** Polymer Science 1: Polymer Chemistry and Plastics Laboratory 0 s.h.

Polymer Science 1: Polymer Chemistry and Plastics Laboratory.

**CHEM 5862** Polymer Science 2: Polymer Rheology, Processing, and Composites 3 s.h.

Polymer rheology, processing methods, and materials characterization. The effects of additives and the major classes of thermoplastic, thermoset, elastomeric, and composite materials. Two hours lecture, three hours lab.

**Prereq.:** CHEM 5861 or consent of the chairperson.

**CHEM 5862L** Polymer Science 2: Polymer Rheology, Processing, and Composites Laboratory 0 s.h.

Polymer Science 2: Polymer Rheology, Processing, and Composites Laboratory.

**CHEM 5876** Enzyme Analysis 2 s.h.

Advanced biochemistry laboratory focusing on the methods of enzyme purification and characterization. One hour lecture, two hours lab.

**Prereq.:** CHEM 3785 or equivalent and CHEM 3785L or equivalent.

**Bachelor of Arts in Chemistry**

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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<tr>
<td>Mathematics requirement (met with MATH in major)</td>
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<tr>
<td>Some courses are categorized in more than one knowledge domain. Courses can only be used once within the GE model.</td>
<td></td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<tr>
<td>Requirement is met through science courses in the major</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<td>Social and Personal Awareness (6 s.h.)</td>
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<td><strong>Foreign Language</strong></td>
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<td>Foreign Language 2600</td>
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The following CHEM core courses are required (29 s.h.):

Grade of "C" or better is required. Courses cannot be taken "CR/NC"

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<tr>
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<td>CHEM 1515</td>
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<td>CHEM 1515R</td>
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<td>CHEM 1516</td>
<td>General Chemistry 2</td>
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<td>and General Chemistry 2 Laboratory</td>
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<td>CHEM 3719</td>
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The following capstone is required (1 s.h.):

<table>
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<tr>
<td>CHEM 4850</td>
<td>Chemistry Research</td>
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The following non-CHEM courses are required (18 s.h.):

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<th>COURSE</th>
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<td>MATH 1571</td>
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<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
<td>4</td>
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<tr>
<td>PHYS 2610 &amp; 2610L</td>
<td>General Physics 1 and General Physics Laboratory 1</td>
<td>5</td>
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<tr>
<td>PHYS 2611 &amp; 2611L</td>
<td>General Physics 2 and General Physics laboratory 2</td>
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**Electives:**

Select 9 s.h. of upper-level CHEM electives (3000 or higher) from the list below:

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CHEM 3729</td>
<td>Inorganic Chemistry</td>
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<tr>
<td>CHEM 3740 &amp; 3740L</td>
<td>Physical Chemistry 2 and Physical Chemistry 2 Laboratory</td>
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<tr>
<td>CHEM 3764</td>
<td>Chemical Toxicology</td>
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<tr>
<td>CHEM 3785</td>
<td>Biochemistry 1</td>
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<tr>
<td>CHEM 3785L</td>
<td>Biochemistry Laboratory</td>
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<td>CHEM 3786</td>
<td>Biochemistry 2</td>
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<tr>
<td>CHEM 3790</td>
<td>Undergraduate Seminar</td>
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<tr>
<td>CHEM 4850L</td>
<td>Chemistry Research Laboratory</td>
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<td>CHEM 4860</td>
<td>Regulatory Aspects of Industrial Chemistry</td>
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<tr>
<td>CHEM 4891</td>
<td>Special Topics</td>
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<tr>
<td>CHEM 5804 &amp; 5804L</td>
<td>Chemical Instrumentation and Chemical Instrumentation Laboratory</td>
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<tr>
<td>CHEM 5821</td>
<td>Intermediate Organic Chemistry</td>
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</table>
Bachelor of Science in Chemistry

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<tr>
<th>COURSE</th>
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<tr>
<td>CHEM 5822 &amp; 5822L</td>
<td>Advanced Organic Laboratory and Advanced Organic Laboratory</td>
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<tr>
<td>CHEM 5830</td>
<td>Intermediate Inorganic Chemistry</td>
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<tr>
<td>CHEM 5832 &amp; 5832L</td>
<td>Solid State Structural Methods and Solid State Structural Methods Laboratory</td>
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<tr>
<td>CHEM 5836</td>
<td>Quantum Chemistry</td>
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<td>CHEM 5861 &amp; 5861L</td>
<td>Polymer Science 1: Polymer Chemistry and Plastics and Polymer Science 1: Polymer Chemistry and Plastics Laboratory</td>
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<tr>
<td>CHEM 5862 &amp; 5862L</td>
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<tr>
<td>CHEM 5876</td>
<td>Enzyme Analysis</td>
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27 s.h. of additional electives required, 24 s.h. of which must be upper level. These electives should include courses needed to fulfill requirements of the minor.

Total Semester Hours 120-122

Year 1

<table>
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<tr>
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<tr>
<td>Fall</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>CHEM 1515</td>
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<td>MATH 1571</td>
<td>Calculus 1</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1 or Writing 1 with Support</td>
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<tbody>
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<td>CHEM 1516</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory and Recitation for General Chemistry 2</td>
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<tr>
<td>MATH 1572</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>Year 2</td>
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<tr>
<td>Fall</td>
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<tr>
<td>CHEM 3719</td>
<td>Organic Chemistry 1 and Organic Chemistry 1 Laboratory and Organic Chemistry Recitation 1</td>
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<tr>
<td>CHEM 2604 &amp; 2604L</td>
<td>Quantitative Analysis and Quantitative Analysis Laboratory</td>
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<td>PHYS 2610 &amp; 2610L</td>
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<tr>
<th>Semester Hours</th>
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<tr>
<td>Spring</td>
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<tr>
<td>CHEM 3720</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory and Organic Chemistry Recitation 2</td>
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<tr>
<td>PHYS 2611 &amp; 2611L</td>
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<td>Year 3</td>
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<td>Fall</td>
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<tr>
<td>CHEM 3739</td>
<td>Physical Chemistry 1 and Physical Chemistry 1 Laboratory</td>
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<tr>
<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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Electives 5
GER 3

Spring

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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>Year 4</td>
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<td>Fall</td>
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<tr>
<td>Upper-Level Chemistry Elective</td>
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<td>Upper-Level Electives</td>
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<td>Spring</td>
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<tr>
<td>Upper-Level Electives</td>
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Total Semester Hours 119-120

Electives must include courses to fulfill the students chosen minor. Typically for Chemistry majors, the minor will be in Mathematics, Physics or Biology.

Learning Outcomes

- Undergraduate students will demonstrate an understanding of the basic principles of the chemical disciplines included in their curriculum.
- Undergraduate students will demonstrate independent and critical thinking.
- Undergraduate students will demonstrate an understanding of the fundamentals of modern chemical instrumentation.
- Undergraduate students will effectively communicate their ideas both orally and in writing.

Bachelor of Science in Chemistry

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

| ENGL 1550 | Writing 1 | 3-4 |
| or ENGL 1549 | Writing 1 with Support | 3-4 |
| ENGL 1551 | Writing 2 | 3 |
| CMST 1545 | Communication Foundations | 3 |

Mathematics requirement (met through MATH in major)

Some courses are categorized in more than one Knowledge Domain. Courses can only be used once within the GE model.

- Arts and Humanities (6 s.h.)
- Social Sciences (6 s.h.)
- Social and Personal Awareness (6 s.h.)

The following CHEM core courses are required (39 s.h.)

Grade of "C" or better is required. Courses cannot be taken "CR/NC"
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory</td>
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<td>CHEM 2604 &amp; 2604L</td>
<td>Quantitative Analysis and Quantitative Analysis Laboratory</td>
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<td>CHEM 3719 &amp; 3719L</td>
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<td>CHEM 3785</td>
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16 s.h. of additional hours required, 9 s.h. of which must be upper-level. These electives should include courses needed to fulfill requirements of the minor.

**Total Semester Hours** 120-122

### Year 1

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**Semester Hours** 13-14

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**Semester Hours** 15

### Year 2

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<td>CHEM 3719R</td>
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<td>CHEM 2604 &amp; 2604L</td>
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**Semester Hours** 15

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**Semester Hours** 14

### Year 3

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**Semester Hours** 6

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**Semester Hours** 16
For further information, please see the related fields such as medicine, dentistry, or pharmacy. Academia. Many will continue their education in graduate schools or in health foundation for careers in research and development in the private sector and in public health. The cross-disciplinary nature of the degree provides students with a good foundation for those interested in integrating the subjects of biology and chemistry. The Bachelor of Science degree in Biochemistry is recommended for those planning to pursue graduate study in biochemistry or related fields.

**Bachelor of Science in Biochemistry**

The Bachelor of Science degree in Biochemistry is recommended for those students interested in integrating the subjects of biology and chemistry. The cross-disciplinary nature of the degree provides students with a good foundation for careers in research and development in the private sector and in academia. Many will continue their education in graduate schools or in health related fields such as medicine, dentistry, or pharmacy.

For further information, please see the Chemical Sciences (p. 432) overview page.

<table>
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<tr>
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<tr>
<td>YSU 1500</td>
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<td>or SS 1500</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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**General Education Requirements**

- ENGL 1550: Writing 1 - 3-4
- ENGL 1549: Writing 1 with Support - 3
- ENGL 1551: Writing 2 - 3
- CMST 1545: Communication Foundations - 3
- Mathematics requirement (met with MATH in major) - 3
- Some courses are categorized in more than one Knowledge Domain. Courses can only be used once within the GE model.
- Arts and Humanities (5 s.h.) - 6
- Natural Sciences (2 courses, 1 with lab) - 6
- This requirement is met through courses in the major - 6
- Social Science (6 s.h.) - 6

**Learning Outcomes**

- Undergraduate students will demonstrate an understanding of the basic principles of the chemical disciplines included in their curriculum.
- Undergraduate students will demonstrate independent and critical thinking.
- Undergraduate students will demonstrate an understanding of the fundamentals of modern chemical instrumentation.
- Undergraduate students will effectively communicate their ideas both orally and in writing.
- Undergraduate students will acquire basic research skills including planning and performing an experiment and analyzing the results.

**Bachelor of Science in Biochemistry**

The Bachelor of Science degree in Biochemistry is recommended for those students interested in integrating the subjects of biology and chemistry. The cross-disciplinary nature of the degree provides students with a good foundation for careers in research and development in the private sector and in academia. Many will continue their education in graduate schools or in health related fields such as medicine, dentistry, or pharmacy.

For further information, please see the Chemical Sciences (p. 432) overview page.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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**General Education Requirements**

- ENGL 1550: Writing 1 - 3-4
- ENGL 1549: Writing 1 with Support - 3
- ENGL 1551: Writing 2 - 3
- CMST 1545: Communication Foundations - 3
- Mathematics requirement (met with MATH in major) - 3
- Some courses are categorized in more than one Knowledge Domain. Courses can only be used once within the GE model.
- Arts and Humanities (5 s.h.) - 6
- Natural Sciences (2 courses, 1 with lab) - 6
- This requirement is met through courses in the major - 6
- Social Science (6 s.h.) - 6

**Learning Outcomes**

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The Bachelor of Science degree in Biochemistry is recommended for those students interested in integrating the subjects of biology and chemistry. The cross-disciplinary nature of the degree provides students with a good foundation for careers in research and development in the private sector and in academia. Many will continue their education in graduate schools or in health related fields such as medicine, dentistry, or pharmacy.

For further information, please see the Chemical Sciences (p. 432) overview page.
|                |                |    
|----------------|----------------|----|
| MATH 1571      | Calculus 1     | 4  |
| MATH 1572      | Calculus 2     | 4  |
| STAT 3717      | Statistical Methods | 4 |
| or STAT 3743   | Probability and Statistics | |
| PHYS 2610      | General Physics 1 | 4 |
| PHYS 2610L     | General Physics Laboratory 1 | 1 |
| PHYS 2611      | General Physics 2 | 4  |
| PHYS 2611L     | General Physics laboratory 2 | 1 |
| **Total Semester Hours** | **120-122** |    |

**Year 1**

**Fall**

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<td>ENGL 1550</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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**Spring**

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**Year 2**

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**Spring**

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<td>or STAT 3743</td>
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**Year 3**

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<td>BIOL 3721</td>
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**Spring**

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**Year 4**

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<td>CMST 1545</td>
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**Spring**

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**Total Semester Hours**

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<tbody>
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</table>

**Learning Outcomes**

The undergraduate student learning outcomes for the major in biochemistry are as follows:

- Undergraduate students will demonstrate an understanding of the fundamentals of chemistry and biochemistry.
- Undergraduate students will demonstrate independent and critical thinking.
- Undergraduate students will demonstrate an understanding of the fundamentals of modern chemical instrumentation.
- Undergraduate students will be able to interpret experimental data.
- Undergraduate students will effectively communicate their ideas both orally and in writing.

**Bachelor of Science in Biochemistry BaccMed Track**

The Bachelor of Science degree in Biochemistry, BaccMed track, is specifically designed for students interested in seeking degrees as primary care physicians. The cross-disciplinary nature of the degree provides a student with a good foundation in the sciences, psychology, sociology, and public health. The student will not only be well prepared for the rigors of medical school, but he or she will also be aware of the issues facing health care professionals as well as be better able to deal with a diverse population.

For more information, please see the Chemical Sciences (p. 432) overview page.

**Learning Outcomes**

The learning objectives for the major in Biochemistry, BaccMed Track are as follows:

- Undergraduate students will demonstrate an understanding of the fundamentals of chemistry and biochemistry.
- Undergraduate students will demonstrate independent and critical thinking.
• Undergraduate students will demonstrate an understanding of the fundamentals of modern chemical instrumentation.
• Undergraduate students will be able to interpret experimental data.
• Undergraduate students will effectively communicate their ideas both orally and in writing.

**COURSE**: Title | S.H.
--- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 Success Seminar | 1-2
or SS 1500 or SS 1500 | Strong Start Success Seminar
or HONR 1500 Intro to Honors

**General Education Requirements**
ENGL 1550 Writing 1 | 3
ENGL 1551 Writing 2 | 3
CMST 1545 Communication Foundations | 3
MATH 1571 Calculus 1 (also required for the major) | 4

Mathematics requirement included in the major.

Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model.

**Arts & Humanities (2 courses)** | 6
Natural Sciences - NS requirement included in the major.

(courses below are required for the BS Biochemistry major and fulfill the Natural Sciences General Education requirement)
CHEM 1515 General Chemistry 1 & 1515L and General Chemistry 1 Laboratory
CHEM 1516 General Chemistry 2 & 1516L and General Chemistry 2 Laboratory
SOC 3745 Sociology of Health, Illness, and Healthcare

**The following CHEM core courses are required (38 s.h.):**
CHEM 1515 General Chemistry 1 & 1515L and General Chemistry 1 Laboratory
CHEM 1516 General Chemistry 2 & 1516L and General Chemistry 2 Laboratory
CHEM 2604 Quantitative Analysis & 2604L and Quantitative Analysis Laboratory
CHEM 3719 Organic Chemistry 1 & 3719L and Organic Chemistry 1 Laboratory
CHEM 3719R Organic Chemistry Recitation 1
CHEM 3720 Organic Chemistry 2 & 3720L and Organic Chemistry 2 Laboratory
CHEM 3720R Organic Chemistry Recitation 2
CHEM 3739 Physical Chemistry 1 & 3739L and Physical Chemistry 1 Laboratory
CHEM 3785 Biochemistry 1
CHEM 3785L Biochemistry Laboratory
CHEM 3786 Biochemistry 2
CHEM 5876 Enzyme Analysis

**The following capstone is required (3 s.h.):**
CHEM 4850 Chemistry Research
CHEM 4850L Chemistry Research Laboratory

**The following BIOL core courses are required (14 s.h.):**
BIOL 2603 Integrated Biology for BS/MD

**The following non-CHEM courses are required (22 s.h.):**
MATH 1581H Honors Biomathematics 2
or MATH 1571 Calculus 1
MATH 1572 Calculus 2
STAT 3743 Probability and Statistics
or STAT 3747 Statistical Methods
PHYS 2610 General Physics 1
& 2610L General Physics Laboratory 1
PHYS 2611 General Physics 2
PHYS 2611L General Physics laboratory 2

**Required Electives:**
Select 7 s.h. in upper level CHEM electives (3000 or higher) from the list below. It is recommended that one elective course includes a laboratory.

CHEM 3729 Inorganic Chemistry
CHEM 3764 Chemical Toxicology
CHEM 4850L Chemistry Research Laboratory
CHEM 4891 Special Topics
CHEM 5804 Chemical Instrumentation & 5804L and Chemical Instrumentation Laboratory
CHEM 5821 Intermediate Organic Chemistry
CHEM 5822 Advanced Organic Laboratory & 5822L and Advanced Organic Laboratory

At least 4 s.h. in upper-level BIOL courses required from the list below; 5-4-5 s.h. recommended if needed to attain 120 s.h. required for graduation.

**BIOL 3703 Clinical Immunology**
**BIOL 3730 Human Physiology**
**BIOL 4829 Microbial Physiology**
**BIOL 4836 Cell Biology: Molecular Mechanisms** & 4836L and Cell Biology: Molecular Mechanisms Laboratory
**BIOL 4837 Cell Biology: Protein Biology Laboratory**
**BIOL 4890 Molecular Genetics**
**BIOL 4890L Molecular Genetics Laboratory**
**BIOL 5840 Advanced Microbiology**

**Other Required Courses:**
PHLT 3709 Elements of Urban Environmental Health Practices
PHLT 3725 Topics in Public Health

**Total Semester Hours**
120-122

**Year 1**

**Summer**
Second Summer Session

**Fall**
YSU 1500 Success Seminar
CHEM 1515 General Chemistry 1 & 1515L and General Chemistry 1 Laboratory
CHEM 1515R Recitation for General Chemistry 1 or Calculus 1

**Year 2**

**Fall**
BIOL 2603 Integrated Biology for BS/MD
PSYC 1560 General Psychology

**Summer**

**Year 3**

**Fall**
YSU 1500 Success Seminar
CHEM 1515 General Chemistry 1 & 1515L and General Chemistry 1 Laboratory
CHEM 1515R Recitation for General Chemistry 1 or Calculus 1

**Year 4**

**Fall**

MATH 1571  Calculus 1  4
ENGL 1550  Writing 1  3

Semester Hours  13

Spring
CHEM 1516  General Chemistry 2  4
& 1516L  and General Chemistry 2 Laboratory
CHEM 1516R  Recitation for General Chemistry 2  1
MATH 1572  Calculus 2  4
ENGL 1551  Writing 2  3
BIOL 3711  Cell Biology: Fine Structure  3

Semester Hours  15

Year 2
Summer
First Summer Session
CHEM 3719  Organic Chemistry 1  4
& 3719L  and Organic Chemistry 1 Laboratory
CHEM 3719R  Organic Chemistry Recitation 1  1
PHLT 1531  Fundamentals of Public Health  3

Second Summer Session
CHEM 3720  Organic Chemistry 2  4
& 3720L  and Organic Chemistry 2 Laboratory
CHEM 3720R  Organic Chemistry Recitation 2  1
SOC 3745  Sociology of Health, Illness, and Healthcare  3

Semester Hours  16

Fall
CHEM 3785  Biochemistry 1  3
CHEM 3785L  Biochemistry Laboratory  1
PHYS 2610  General Physics 1  4
PHYS 2610L  General Physics Laboratory 1  1
BIOL 3721  Genetics  3
BIOL 3702  Microbiology  4
& 3702L  and Microbiology Laboratory  0

Semester Hours  16

Spring
CHEM 3786  Biochemistry 2  3
CHEM 5876  Enzyme Analysis  2
PHYS 2611  General Physics 2  4
PHYS 2611L  General Physics laboratory 2  1
STAT 3743  Probability and Statistics  4
or STAT 3717  or Statistical Methods  0

Semester Hours  14

Year 3
Summer
First Summer Session
CHEM 2604  Quantitative Analysis  5
& 2604L  and Quantitative Analysis Laboratory  4

Second Summer Session
CMST 1545  Communication Foundations  3
GER Arts & Humanities  3

Semester Hours  11

Fall
CHEM 3739  Physical Chemistry 1  4
& 3739L  and Physical Chemistry 1 Laboratory
CHEM 4850  Chemistry Research  1
CHEM Upper-level Elective  4

PHLT 3709  Elements of Urban Environmental Health Practices  3

Semester Hours  12

Spring
CHEM 4850L  Chemistry Research Laboratory  2
CHEM Upper-level Elective  3
BIOL Upper-level Elective  3
PHLT 3725  Topics in Public Health  3
GER Arts & Humanities  3

Semester Hours  14

Total Semester Hours  118

Minor in Chemistry

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<td>&amp; 4850L</td>
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Total Semester Hours  19-22

Bachelor of Science in Applied Science in Forensic Science

Forensic Science Program
Youngstown State University offers an undergraduate degree, the Bachelor of Science in Applied Science in Forensic Science. This is a multidisciplinary program drawing upon Criminal Justice, Forensic Science, Biological Sciences, Chemical Sciences, Sociology, and Anthropology. The program is housed in the Department of Chemical and Biological Sciences.

Forensic science can be broadly defined as the application of science to law. This program is designed to give students both a theoretical and practical background in the scientific, legal, and investigative aspects of forensic science. Graduates of the program are prepared for continued education in graduate programs or for immediate employment in forensic science-related facilities. Many careers in or related to forensic science require academic preparation beyond the undergraduate level. Students should be prepared to pursue advanced degrees within their discipline.

Admission Policy
Students wishing to transfer into the forensic science program must have and maintain a cumulative GPA of at least 2.5. Note: individuals with a felony, drug, and/or domestic violence conviction will experience difficulty gaining employment in the fields of forensic science and/or criminal justice. Students
with misdemeanor convictions or juvenile sex offense convictions should seek advice from an advisor.

**Internships**

YSU's Forensic Science program requires a six-semester hour internship experience which will provide students with the opportunity to integrate academic studies with the daily operations of a forensic science related facility. Each semester hour requires approximately 45 on-site hours. Internships also foster the development of networking relationships with practitioners who can assist in procuring future employment. Certain criminal convictions may prohibit students from being eligible for an internship experience.

For more information, visit the Forensic Science Program. ([https://ysu.edu/academics/science-technology-engineering-mathematics/forensicsciencemajor/](https://ysu.edu/academics/science-technology-engineering-mathematics/forensicsciencemajor/))

A Bachelor of Science in Applied Science degree in Forensic Science requires a minimum of 121 semester hours. The program is designed to be rigorous and multi-disciplinary, and allows for fewer electives in lower level courses but an increased flexibility in upper-division coursework. Students must complete the following coursework within their first 3 semesters at YSU, and must maintain at least a 2.5 GPA in order to remain in the FS program:

- HAHS 1500 - Introduction to BCHHS
- ENGL 1550 - Writing I
- CRJS 1500 - Introduction to Criminal Justice
- FSCI 1510 - Survey of Forensic Science
- CHEM 1515 - General Chemistry I
- CHEM 1515L - General Chemistry I Laboratory
- Two MATH courses, which may include MATH 1510, MATH 1510C, MATH 1511, MATH 1511C, MATH 1571, MATH 1572

**Professor**

Susan Ann Clutter, M.F.S., Associate Professor

Robert E. Wardle III, M.S., Associate Professor

A minor is intended to contrast with or deepen a major or General Education. Forensic Science is an interdisciplinary major. Courses that are required for, and count toward, the Forensic Science major cannot be counted toward a minor.

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<td>CHEM 2604 &amp; 2604L</td>
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<td>Arts and Humanities Elective</td>
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<td>Elective 3700-Level</td>
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<td>CRJS 4807</td>
<td>Criminal Justice Internship</td>
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<tr>
<td>PHYS 2610</td>
<td>General Physics 1</td>
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<tr>
<td>PHYS 2610L</td>
<td>General Physics Laboratory 1</td>
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<td>Arts and Humanities Elective</td>
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<td>Elective 3700-Level</td>
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<td>CRJS 4807</td>
<td>Criminal Justice Internship</td>
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<tr>
<td>PHYS 2611</td>
<td>General Physics 2</td>
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<td>PHYS 2611L</td>
<td>General Physics Laboratory 2</td>
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<tr>
<td>BIOL 3721</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>Elective 3700-Level</td>
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</table>

There may be other courses that qualify for upper division electives, but you must discuss these options with an academic advisor and get pre-approved.

### Year 1

#### Fall
- **YSU 1500** Success Seminar 1 S.H.
- **ENGL 1550 or ENGL 1549** Writing 1 or Writing 1 with Support 3-4 S.H.
- **FSCI 1510** Survey of Forensic Sciences 3 S.H.
- **CRJS 1500** Introduction to Criminal Justice 3 S.H.
- **CHEM 1515 & 1515L** General Chemistry 1 and General Chemistry 1 Laboratory 4 S.H.
- **Arts and Humanities Elective** 3 S.H.

#### Semester Hours
17-18 S.H.

#### Spring
- **ENGL 1551** Writing 2 3 S.H.
- **CRJS 2602** Criminal Courts 3 S.H.
- **ANTH 1500** Introduction to Anthropology 3 S.H.

#### Semester Hours
119-129 S.H.
FSCI 4850 Special Topics in Forensic Sciences 3 s.h.
Contemporary issues in criminal justice. Topics are announced prior to enrollment.
Prereq.: Senior standing or permission of instructor.

FSCI 4852 Trace Evidence 3 s.h.
Teaches search methods, recovery procedures, and laboratory analysis for hairs, fibers, and other types of trace evidence in criminal investigations and prosecutions. Emphasis is on major cases that hinged on trace evidence, and the legal and ethical future of trace evidence. Some laboratory exercises with microscopes are included.
Prereq.: FSCI 3714 or concurrent or permission from instructor.

FSCI 4853 Forensic Firearms Examination 3 s.h.
This course features discussion on the forensic science involved in firearms examination, to include gun manufacturing, the physics of ballistics, gunpowder and gun primer residue analysis, serial number restoration, and shooting reconstruction. Legislation concerning handguns and other weapons in the US will also be covered.
Prereq.: FSCI 3714 or concurrent or permission from Instructor.

FSCI 4854 Death Investigation 3 s.h.
A broad overview exploring the various facets of medicolegal death investigation including discussion of history, standard procedures, methods and techniques, safety, scene documentation, cause and manner of death determination, autopsy, toxicological analysis, and other issues related to the discipline. Course content will include graphic images, descriptions, and discussion. May include depictions of a sexual nature, nudity, the aftermath of violent actions, and/or catastrophe.
Prereq.: Junior standing or permission of instructor.

FSCI 5814 Practice and Ethics in Forensic Science 3 s.h.
Overview of the forensic science discipline as it relates to the criminal justice system including discussion of legal aspects, constitutional considerations, expert testimony, the role of the expert witness, and ethical standards and dilemmas. Also includes discussion of current events and the evolution and future of the forensic sciences.
Prereq.: FSCI 3714 and FSCI 3714L.
Gen Ed: Capstone.

Forensic Science Certificate
The Forensic Sciences Certificate is an 18 hour program that emphasizes crime scene investigation and basic information regarding the use of forensic work within multiple career fields. The student can pick their own advanced courses based upon their desired career.

Upon completion of the Forensic Science Certificate, the student will be able to:

- Describe various subfields of forensic science, and identify where forensic sciences fit into the Criminal Justice system
- Examine crime scenes, recover evidence, and perform basic scientific tests within a laboratory setting
- Apply biological, chemical, mathematical, and physics theory towards solving crimes
- Evaluate the probative value of forensic evidence such as hair examination, drug analysis, and fire investigation

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CRJS 1500</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
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<tr>
<td>FSCI 1510</td>
<td>Survey of Forensic Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FSCI 3714</td>
<td>Forensic Science: Crime Scene Investigation</td>
<td>3</td>
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<td>FSCI 3714L</td>
<td>Forensic Science CSI Lab</td>
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<tr>
<td>FSCI 3716</td>
<td>Forensic Science Evidence Analysis</td>
<td>2</td>
</tr>
<tr>
<td>FSCI 3716L</td>
<td>Forensic Science Evidence Analysis Laboratory</td>
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<td>AND ANY TWO OF THE FOLLOWING COURSES:</td>
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<tr>
<td>FSCI 3700</td>
<td>Forensic Fire and Explosive Investigation</td>
<td>3</td>
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<tr>
<td>FSCI 4852</td>
<td>Trace Evidence</td>
<td>3</td>
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<tr>
<td>FSCI 4853</td>
<td>Forensic Firearms Examination</td>
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<tr>
<td>FSCI 4850C</td>
<td>Special Topics in Criminal Justice Death Investigation</td>
<td>3</td>
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</table>
Welcome to the School of Computer Science, Information, and Engineering Technology

The programs that make up the School are committed to high quality education in the classroom, in student research, student projects, and in internships with our business partners. The programs within the School range from Associate in Technical Studies to a Master Degree. Some programs focus on the analytical while others are focused on the practical side. Below is a list of the programs to meet student needs:

- The Computer Science program is offered as the Bachelor of Science degree and is a traditional, analytical program which involves extensive computer programming and support courses in mathematics.
- The Information Technology program is also offered as the Associate of Applied Science and the Bachelor of Science in Applied Science. Coursework emphasizes applying high-end computer applications and system management.
- The Master’s in Computing and Information Systems offers advanced education in several computing areas.
- The Civil and Construction Engineering Technology is offered as both Associate and Bachelor of Science in Applied Science degree and focuses on civil design engineering and the construction aspect to civil engineering.
- The Electrical Engineering Technology is also offered as both Associate and Bachelor of Science in Applied Science degrees with focuses in electrical engineering design and industrial automation.
- The Mechanical Engineering Technology program, also offers both Associate and Bachelor of Science in Applied Science degrees with focuses in mechanical and additive manufacturing engineering. Within the mechanical engineering program students can also earn certifications in specific areas.
- The Power Plant (Electrical Utilities) Technology offers an Associate in Technical Studies with a focus in basic operating of electrical utility power plants and related industries.

Welcome from the Chair

As the chair, I want to welcome you to YSU and the School of Computer Science, Information, and Engineering Technology. The programs within the School offers students the most current curriculum with the technology that will prepare them for their professional careers upon graduation by teaching them to apply knowledge and training to create solutions.

Students in the various programs have the opportunity to work with faculty on both research and real-world projects, as well as internship and co-op opportunities so that they gain experience in their field of study.

I am proud of the faculty, students, and graduates of our programs. We look forward to meeting you and answering any questions you may have! Please feel free to contact me at cmlamb@ysu.edu.

School Contact Information

Phone: (330) 941-3134 or (330) 941-3287

Locations:
- Computer Science and Information Technology: Meshel Hall, Room 339
- Engineering Technology: Moser Hall, Room 4120

Program Coordinators

Computer Science: Dr. Kramer rwkramer@ysu.edu
Information Technology: Dr. Arslanylimaz aarslanylimaz@ysu.edu
Civil and Construction Engr’g Tech: Prof. Korenic rjkanenico@ysu.edu
Electrical Engr’g. Tech: Prof. Zapka jazapka@ysu.edu
Mechanical Engr Tech: Dr. Lamb cmlamb@ysu.edu
Power Plant Tech: Prof. Coyne dpcoyne@ysu.edu

Computer Science and Information Systems

The learning outcomes for each program can be found at:
- BS in Computer Science (p. 459)
- AAS in Information Technology (p. 453)
- BSAS in Information Technology (p. 457)

For more information, please see the program coordinator/department chair.

MISSION STATEMENT

The increasingly interdisciplinary nature of computer science has significantly pushed its frontiers, while at the same time reinvigorated research into the foundations of computing. This duality informs and guides how we implement our mission. The primary mission of the CSIS programs is to:

- generate and spread knowledge, train future scholars who actively participate in their field of study, and give services to our community. The field of computer science has extensively created new technology and has also given way for new research topics. This ability creates our mission in this department.
• design a broad range of current Computer Science, and Information Technology experiences that include multidisciplinary activities and community interaction, using current computing technology and supported by strong written, critical thinking, and verbal communication skills to enable students to function effectively in a technology-based society.
• develop partnerships with local industry and school systems to benefit the economic health of the Mahoning Valley.
• supports and encourages research, industry partnerships, and other activities leading to the development of new technologies and new classroom methods and techniques.
• recognize that computing has become an increasingly crucial aspect of all disciplines of knowledge, and support interdisciplinary programs and forms symbiotic relationships with other disciplines in areas of greatest benefit to students.
• support the social growth of students, promoting ethical decision making, the development of secure and reliable computing systems, and an awareness of the role of computing in a global environment.
• constantly strives for diversity in terms of groups underrepresented in computing, particularly women.

Curriculum sheets and suggested schedules for each program may be obtained from the office (M-339) in Meshel Hall or from the School's website.

ADMISSION REQUIREMENTS FOR THE PROGRAMS

Students will initially be admitted to University in the "STEM-T" (formerly "PRE-COMPUTER") major in the STEM College. Students may and should apply for a transfer into the Computer Science or Information Technology programs once they have met the eligibility requirements. Students will be eligible to transfer to the CSCI or IT major once they have completed all pre-college Math (i.e. ready to take MATH 1513, 1552, or higher MATH) and pre-college English (i.e. ready to take ENGL 1550).

The typical courses taken by a PRE-COMPUTER major prior to transferring to a program are:

• Intended Major - Computer Science: CSIS 1590 or CSIS 2610
• Intended Major - Information Technology: INFO 1575 or CSIS 1590

New students, former YSU students, and external transfer students will enter the University as "STEM-T" majors and apply for admission to a departmental major when the above criteria are satisfied.

GRADUATION POLICIES

Students must meet the degree requirement of each program. The curricular requirements for each program is listed below. For more information, please see the program coordinator/department chair.

• BS in Computer Science (p. 458)
• AAS in Information Technology (p. 452)
• BSAS in Information Technology (p. 455)

ADVISING AND ADVISOR LIST

Advising, which is a continuous and consistent collaborative process between faculty members and students, is to make sure that students are making the right decision in the growth and development process, while seeking a degree. The role of academic advisor is to help students in developing efficient and effective educational plans that is inline with the life goals. Therefore, advisors are to:

• help students (advisees) to adapt the planning nature of the academic life and expectations, which is consistent with their abilities and interests.

• meet with students once a semester to for academic planning
• monitor and mentor the student progress towards the educational goals
• make sure rules and regulations are well understood by the students and the necessary steps are taken in the correct order.
• approve all designated educational transactions (registration, advising, course transfer, major selection, graduation requirements, etc.)

Professor
Abdurrahman Arslanyilmaz, Ph.D., Professor
Robert W. Kramer, Ph.D., Associate Professor
Alina Lazar, Ph.D., Professor
John R. Sullins, Ph.D., Associate Professor
Feng Yu, Ph.D., Associate Professor
Yong Zhang, Ph.D., Associate Professor

Lecturer
Robert Gilliland, M.C.I.S., Senior Lecturer
Todd A. Jones, , Lecturer

Majors
• BS in Computer Science (p. 457)
• AAS in Information Technology (p. 452)
• BSAS in Information Technology (p. 455)

Minors
• Minor in Computer Databases (p. 459)
• Minor in Computer Networking (p. 459)
• Minor in Electronic Commerce Technology (p. 459)
• Minor in Information Systems Programming (p. 459)
• Minor in Integrated Technologies (p. 459)
• Minor in Multimedia and Web Design (p. 460)
• Minor in Object-Oriented Programming (p. 460)
• Minor in Computer Science (p. 459)
• Minor in Security – Requirements will be posted soon.
• Minor in Tech Support – Requirements will be posted soon.
• Minor in Web Communication (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences-education/department-english/minor-web-communications/)

Computer Science and Information Systems

CSIS 1500 Computer Literacy 3 s.h.
A survey of computer concepts and applications. Network access and electronic mail. Emphasis on software applications packages available for microcomputers, including word processing. This course is meant for students with minimal or no background in computers. Credit will not be given for both CSIS 1500 and for either CSIS 1514, CSIS 1525, or CSIS 1590.
CSIS 1514  Business Computer Systems  3 s.h.
Hands-on business software, with emphasis on operating systems, word processing, database and spreadsheet applications. This course is not designed for beginning computer users. Beginning computer users should take CSIS 1500: Computer Literacy before taking this course.

CSIS 1525  Survey of Modern Operating Systems  3 s.h.
This course presents the history of design and creation of the operating system, role and purpose of the operating system, functionality of a typical operating system, mechanisms to support client-server models, handheld devices, design issues (efficiency, robustness, flexibility, portability, security, compatibility), influences of security, networking, multimedia, and Unix operating systems. This course is not applicable to the CSCI major. This course is not designed for beginning computer users. Beginning computer users should take CSIS 1500: Computer Literacy before taking this course.

CSIS 1550  Survey of Language Topics  3 s.h.
Introductory language course with emphasis on writing structured programs in a particular computer language. The language topic and special prerequisites are announced in advance. Not applicable to the CIS or CSCI major.
Prereq.: Permission of chair.

CSIS 1560  Basic Programming  3 s.h.
An introduction to computer programming using a visual object-oriented programming tool. Topics include control structures, loops, functions, methods, recursion, array processing, and events. Students will learn to design and implement virtual worlds.

CSIS 1570  Web Systems and Technologies  3 s.h.
Concepts of web-based applications including related software, interfaces and digital media. Foundations of web-site development including design, implementation, and integration. Multimedia integration and security and accessibility issues.
Prereq.: MATH 1505 or MATH 1507 or Math Placement Level 35.

CSIS 1590  Survey of Computer Science and Information Systems  3 s.h.
Concepts, theory, and contemporary issues underlying the computing sciences. Introduction to computer applications, the YSU computing environment, the use of communication and information networks, and basic problem solving techniques using computers. This course is not designed for beginning computer users. Beginning computer users should take CSIS 1514: Business Computer Systems before taking this course.
Prereq.: or concurrent MATH 1505 or MATH 1507 or at least Level 30 on the Mathematics Placement Test.

CSIS 1595  Fundamentals of Programming and Problem-Solving 1  3 s.h.
Introduction to concepts, principles, and skills of programming using a high-level programming language. Topics include programming language characteristics, an integrated development environment, algorithms and pseudocode, variables, operators, conditional statements, looping statements, functions, arrays, testing, debugging, documentation and program style. Two hours lecture and two hours lab. Credit will not be given for both CSIS 1595 and CSIS 2610.
Prereq.: CSIS 1590 or MATH 1507 or Level 40 on Math Placement Test.

CSIS 2602  Programming in C  3 s.h.
Programming concepts and techniques, with emphasis on scientific and engineering applications. An accelerated survey of the C programming language and an introduction to the UNIX programming environment. Not applicable to the CIS or CSCI major.
Prereq.: CSIS 1500 and MATH 1513 or Math Placement Level 5 or 50 or higher.

CSIS 2605  Fundamentals of Programming and Problem-Solving 2  3 s.h.
Theory and application of programming principles, data and information structures, simple linked lists, searching, and sorting, software development life cycle. Practice using these concepts in an object-oriented programming language. Credit will not be given for both CSIS 2605 and CSIS 2610. Prereq. or.
Prereq.: C or better in CSIS 1595.
Coreq.: MATH 1511 or MATH 1513 or MATH 1552 or Level 50 on Math Placement Test.

CSIS 2610  Programming and Problem-Solving 4 s.h.
Problem solving methods and algorithms using a high-level programming language. Designing, coding, debugging, and documenting programs using techniques of good programming style. Three hours lecture, two hours lab. Credit will not be given for both CSIS 2605 and CSIS 2610.
Prereq.: MATH 1511 or MATH 1513 or MATH 1552 or Level 50 on Math Placement Test.

CSIS 2615  Information Structures for Information Technology  3 s.h.
Study and application of information structure concepts such as lists, trees, multilevel lists, files, and data-method integration. Practice using these concepts in a 3D animation environment using an object-oriented programming language in the background. Emphasis on algorithm design, object utilization, and storyboard.
Prereq.: CSIS 1590, and either CSIS 2605 or CSIS 2610.

CSIS 2620  System Configuration and Maintenance  3 s.h.
Theory and practice of installing and maintaining hardware and software for complex systems. Motherboards, memories, storage devices, processors, power supplies, network interface cards, and I/O peripheral devices. Operating systems, startup and boot process, I/O peripheral devices, data backup, data protection and recovery, networking, security strategies, virtualization, and troubleshooting.
Prereq.: CSIS 1590 or CSIS 2605 or CSIS 2610.

CSIS 2655  Personal Cyber Security  3 s.h.
PC system security including data assurance, standards and legal issues, and methods and procedures for guarding against potential software attack. Not applicable to the CIS, CSCI, or INFO major. Credit will not be given for 2655 if a student already received credit for CSIS 3755 or its equivalent.

CSIS 2660  Foundations of Electronic Commerce  3 s.h.
Framework of electronic commerce, including e-commerce architecture, infrastructure, technologies, tools, and strategies. Topics include security, environmental, and implementation issues. Includes web site analysis, hardware/software issues, mini-cases, and introduction to site development.
Prereq.: CSIS 1590.

CSIS 2699  Computer Science and Information Systems Internship 1-3 s.h.
Classroom theory applied to on-the-job professional experience related to the student's major. Work for a minimum of 12 hours per week at an approved site, complete a related project, and attend seminars. May be repeated once with the permission of coordinator.
Prereq.: Sophomore in good standing and permission of internship coordinator.

CSIS 3700  Data Structures and Objects  4 s.h.
Program design, style and expression, testing and debugging for larger programs. Introductory concepts of object oriented programming, including classes, methods, encapsulation, and abstract data types. Theory and application of data structures, including linked structures, trees, networks, and graphs.
Prereq.: "C" or better in either CSIS 2605 or CSIS 2610.

CSIS 3701  Advanced Object-oriented Programming  3 s.h.
Object-oriented design and programming, including classes, encapsulation, inheritance, polymorphism, exception handling, and generics. Design, development, and testing of large-scale programs using object-oriented programming.
Prereq.: "C" or better in either CSIS 2605 or CSIS 2610.

CSIS 3722  Development of Databases  3 s.h.
This course covers concepts about data modelling, relational data model, Structured Query Language (SQL), relational database design and transaction processing. Storing, retrieving, updating and displaying data using Structured Query Language (SQL), functions and triggers. Secure operations performed by database administrators.
Prereq.: CSIS 1590 or CSIS 2605 or CSIS 2610.
CSIS 3723 Networking Concepts and Administration 3 s.h.
Overview of electronic communications concepts and technologies, with emphasis on Local Area Networks. Network topologies, design, administration, installed applications, and performance monitoring. Privacy, ethical and legal concerns.
Prereq.: CSIS 2605 or CSIS 2610.

CSIS 3726 Visual/Object-Oriented Programming 4 s.h.
Use of one or more visual programming languages in conjunction with the concepts of object-oriented programming. Development of interactive programs using a graphical user interface. Database and Internet programming. Three hours lecture, two hours lab.
Prereq.: CSIS 2605 or CSIS 2610.

CSIS 3730 Computer Graphics 3 s.h.
Techniques of computer raster graphics, including scan conversion, two- and three-dimensional clipping and windowing, transformations, and viewing in 3D. Algorithms and more advanced topics.
Prereq.: CSIS 3700 and MATH 1572.

CSIS 3731 Human-Computer Interaction 3 s.h.
Concepts of human-computer interaction, including human factors, performance analysis, cognitive processing, usability studies, environment, training, user and task analysis, ergonomics, and accessibility standards.
Prereq.: CSIS 2605 or 2610 or INFO 2663.

CSIS 3732 Intranet Database Implementation 3 s.h.
Design and implementation of 3NF PC-based databases uploaded to intranet Web sites. Remote database design, development, and updating using SQL within an application development software package. Validating database integrity. Includes site development and projects.
Prereq.: CSIS 3722 and either CSIS 2605 or CSIS 2610.

CSIS 3737 Game Programming 3 s.h.
Programming and development of computer games using a game programming environment. Software tools for coding 2D and 3D graphics and animation, sprites and other assets, and handling input events, motion, and collisions. Object-oriented programming and AI concepts for game development.
Prereq.: CSIS 1595 or CSIS 2610.

CSIS 3738 Graphics and Animation for Gaming 3 s.h.
Design and implementation of animated characters in 3D computer games. Mesh design creation; surface materials, textures, and lighting; skeletal and facial rigging; motion and animation. Underlying physical principles and realistic character design concepts. Use of 3D animation software.
Prereq.: CSIS 1595 or CSIS 2610.

CSIS 3740 Computer Organization 4 s.h.
Basic hardware components, structure, and implementation of computer systems. Assembly language and instruction set architecture. Combinational and sequential digital logic. CPU and control unit design.
Prereq.: CSIS 2605 or CSIS 2610.

CSIS 3755 Information Assurance 3 s.h.
Confidentiality, integrity, and authenticity of information. Methods of controlling access to electronic data, enforcing security policies, protecting against malicious attacks (including web site attacks), intrusion detection, and disaster recovery.
Prereq.: CSIS 1590 or CSIS 2605 or CSIS 2610.

CSIS 3756 Security Design 3 s.h.
Operating system security concepts, techniques and applications including MS Windows and LINUX/UNIX platforms. Includes a hands-on design project.
Prereq.: Either CSCI 5806 or CSIS 3755 and either CSIS 1525 or CIS 3718.

CSIS 3757 Computer Forensics 3 s.h.
Professional computer forensics, including methods and investigative techniques for the discovery and recovery of digital images and information at all levels, from PCs to large information systems. Chain of evidence and investigative techniques for cybercrime detection.
Prereq.: CSIS 3755.

CSIS 3760 Electronic Commerce Programming 3 s.h.
Programming for client/server systems related to electronic commerce, including server-side languages such as Perl and Client-side languages such as JavaScript. Topics include form validation and parsing, database access and manipulation, and design, networking, and security issues.
Prereq.: CSIS 2605 or CSIS 2610.

CSIS 3761 Electronic Commerce Strategies 3 s.h.
Advanced concepts for development and maintenance of electronic commerce web sites. Topics include e-commerce paradigms, software and programming, and infrastructure issues. Site design, evaluation, deployment, and administration issues, including prototyping and SDLc issues. Building web-based training components. Includes IT project.
Prereq.: CSIS 2660 and INFO 2663.

CSIS 3782 Cisco Networking Academy 1 4 s.h.
Current and emerging networking concepts and technology. Topics include networking standards, terminology, and protocols; LANs and WANs, the OSI and TCP/IP models, network topology and design, physical and logical addressing, subnet masking, router configuration and programming. Includes structured cabling project. Three hours lecture and three hours lab. By permit only.
Prereq.: CSIS 1590, and either CSIS 2605 or CSIS 2610.

CSIS 3783 Cisco Networking Academy 2 4 s.h.
Advanced networking concepts and technology. Topics include LAN switching, VLAN design and implementation, IGRP Access Control Lists, Novell IPX, Token Ring, Network Management, WAN design, WAN protocols (PPP, Frame Relay, ISDN), CCNA certification review. LAN design project. Three hours lecture and three hours lab.
Prereq.: CSIS 3782.

CSIS 3790 Undergraduate Research 1-3 s.h.
A research experience under the supervision of a faculty mentor. Course may be repeated for a total of up to 6 semester hours.
Prereq.: CSIS 2605 or CSIS 2610, and faculty approval.

CSIS 4804 Programming in Operations Research Applications 3 s.h.
Basic operations research techniques and programming. Linear programming, queuing, mathematical modeling, and network analysis.
Prereq.: CSIS 2610 and 3 semester hours of upper-division departmental courses.

CSIS 4819 Parallel and Distributed Computing 3 s.h.
Survey of current development of parallel processing with emphasis on parallel programming. Topics include parallel architecture, interconnection networks for inter-processor communication, parallel sorting/searching algorithms, parallel constructs for parallel programming paradigms, and implementation of the algorithms in a parallel programming language.
Prereq.: CSIS 3700 and CSIS 3740.

CSIS 4822 Database Applications 3 s.h.
Design and development of applications using database languages.
Prereq.: CSIS 3722.

CSIS 4823 Data Communications Networking 3 s.h.
Study of present methods for design and evaluation of information networks, LAN and WAN. Includes queuing, routing, security, reliability, error detection and correction, and distributed processing.
Prereq.: CSIS 3723.

CSIS 4831 Virtual Reality Systems 3 s.h.
An investigation into the use, design, implementation, and evaluation of virtual reality interfaces. Experiences with VR systems using both 2D projections and stereoscopic display and other systems. Students work in multidisciplinary groups.
Prereq.: CSIS 3730.
CSIS 4870 Web Communications Capstone 3 s.h.
A project course requiring the integration of website development tools and techniques, database development, effective writing for the web, and audience analysis, to produce a website of substantial depth and breadth. Oral and written presentations of final project. Listed also as ENGL 4870.
Prereq.: Senior standing and permission of instructor.
Gen Ed: Capstone.

CSIS 4878 Mobile Application Development 3 s.h.
Principles of designing and developing cross-platform mobile applications. Techniques for designing, developing, testing, packaging, and publishing cross-platform mobile apps. Client- and server-side programming theories and practices regarding mobile app development.
Prereq.: CSIS 3722, INFO 3776, and CSIS 3701.

CSIS 4893 Computer Science and Information Systems Advanced Internship 2-4 s.h.
An industrial/academic experience in information systems/technology. Employment for 15 to 20 hours per week. May be repeated once with the permission of internship supervisor.
Prereq.: 16 s.h. of department courses (at least 3 hours upper-division) and permission of department internship supervisor.

CSIS 5824 Applied Artificial Intelligence 3 s.h.
Study of artificial intelligence software related to decision making. Topics may include robotic control, expert systems, automated knowledge acquisition, or logic programming.
Prereq.: CSIS 3700 and 3 s.h. of upper-division departmental courses, or CSIS 6901.

CSIS 5828 Computer Network Security 3 s.h.
Overview of security issues that arise from computer networks, including the spectrum of security activities, methods, methodologies, and procedures. Intrusion detection, firewalls, threats and vulnerabilities, denial of service attacks, viruses and worms, encryption, and forensics.
Prereq.: CSIS 3723 or equivalent.

CSIS 5837 Artificial Intelligence in Game Design 3 s.h.
Artificial intelligence techniques for designing and programming intelligent non-player characters for a variety of different types of game genres. Finite and fuzzy state machines, terrain analysis and path planning, board games, language understanding, and learning.
Prereq.: CSIS 3700 or CSIS 3701 or CSIS 3726 or CSCI 6901.

CSIS 5838 Graphics and Animation for Gaming 3 s.h.
Design and implementation of 3D computer games. Development of 3D characters, including surface creation and effects, skeletal and facial rigging, and motion and animation. Programming those characters in a 3D game engine, including scripting, level and game design, and game physics.
Prereq.: CSIS 2605 or CSIS 2610 or CSIS 3737.

CSIS 5883 Remote Access and Multilayer Switched Networks 4 s.h.
Advanced WAN connectivity, including Frame Relay, ATM, ISDN, DSL, and modems; IP address scaling techniques; advanced access control; core issues in network design and management; focusing on multilayer switched networks and emerging multi-service networks. Will incorporate CCNP Cisco Academy curriculum. Three hours lecture, three hours lab.
Prereq.: CSIS 3783.

CSIS 5884 Building Scalable Networks and Advanced Internetwork Troubleshooting 4 s.h.
Designing scalable networks; advanced routing protocols; VLAN and route aggregation; management and diagnostic tools; troubleshooting tools and methodology for TCP/IP, Novell, and AppleTalk connectivity, VLANs, routers, and switches; Frame Relay and ISDN connectivity. Will incorporate CCNP Cisco Academy curriculum. Three hours lecture, three hours lab.
Prereq.: CSIS 3783.

Computer Science

CSCI 3710 Introduction to Discrete Structures 3 s.h.
Basic set theory, including functions and relations. Boolean algebra, propositional logic, regular expressions, and finite automata.
Prereq.: CSIS 2610 and MATH 1571 or MATH 1585H, or Math Placement Level 9 or 90.

CSCI 3750 Advanced UNIX and C Programming 3 s.h.
Use of UNIX programming environment and associated tools and utilities. Command language programming. Systems programming with ANSI C. May include UNIX internals and system administration.
Prereq.: CSIS 3700.

CSCI 3770 Concepts of Programming Languages 3 s.h.
Comparative survey of programming language paradigms, including imperative, object-oriented, event-driven, functional, logic-based, and concurrent programming languages. Design and tradeoffs of programming language features and implementation, including syntax, control structures, types, memory management, and security.
Prereq.: CSIS 3701.

CSCI 3780 Microcomputer System Software 3 s.h.
Programming microprocessor based systems using assembly language. Study of addressing techniques, machine language, program segmentation, and linking on microcomputers.
Prereq.: CSIS 3700.

CSCI 4805 System Programming 3 s.h.
Topics selected from aspects of systems programming, including assemblers, loaders, linkage editors, macro processors, and file management.
Prereq.: CSIS 3700 and CSIS 3740.

CSCI 4830 Advanced Computer Graphics 3 s.h.
A thorough investigation of graphics algorithms. Topics include hidden surface removal, parametric curves, lighting, shading, and texturing. Implementation of a graphics project required.
Prereq.: CSIS 3730 and MATH 3720.

CSCI 4862 Server-Side Web Development and Programming 3 s.h.
Prereq.: CSIS 3700 or CSIS 3701.

CSCI 4870 Biometrics 3 s.h.
Major biometric techniques, including face, fingerprint, voice and iris. Biometric methods with roots in computer vision, image processing, pattern recognition and machine learning.
Prereq.: CSIS 3700 or FSCI 3716/L or permission of instructor.

CSCI 4871 Cloud Computing and Big Data 3 s.h.
Fundamental knowledge of cloud computing and big data. Advances in cloud computing and data intensive computing environment across multiple disciplines. Students will build, manage, and program on popular cloud and big data platforms.
Prereq.: At least 3 semester hours of upper division CSIS or CSCI courses.

CSCI 4890 Computer Projects 2-4 s.h.
Individualized study of a topic in computer science culminating in a written report and an oral presentation. May be repeated up to 8 s.h. of upper-division CSCI courses applicable to the minimum requirements of a computer science major, and formal project proposal.
Prereq.: 24 s.h. of computer science (including at least 3 s.
Gen Ed: Capstone.

CSCI 5801 Software Engineering 3 s.h.
Developing and maintaining complex software systems. Process and life-cycle models, and tools for software development (such as CASE). Specification methods, prototyping, validation and verification strategies, and version maintenance. Management of the system development process. A group project is required.
Prereq.: CSIS 3701.
CSCI 5802  Software Tools and Practices  3 s.h.
A course that focuses on the different tools and techniques that software engineers typically use while developing software. Topics include current software engineering tools and practices, software testing, software architecture, version control systems, build and make systems, debuggers, static analysis tools, dynamic analysis tools, and design patterns. Students gain experience in multiple environments (Windows and a UNIX-based environment).
Prereq.: Junior standing and CSIS 3700 or CSCI 6901.

CSCI 5806  Operating Systems  3 s.h.
Study of the various components of operating systems including kernels and monitors, currency and parallel processing, processor management, storage management, device management, I/O processing and file management.
Prereq.: CSIS 3700 and CSIS 3740.

CSCI 5807  Compiler Design  3 s.h.
Study of compiler design and construction, including context-free languages, lexical analysis, parsing, code generation and optimization.
Prereq.: CSIS 3700 and CSIS 3740, CSCI 3710.

CSCI 5814  Computer Architecture  3 s.h.
Study of high-performance sequential computer architecture. Topics include performance evaluation, instruction set design, processor implementation techniques, pipelining, vector processing, memory hierarchy design, and parallel architecture.
Prereq.: CSIS 3700 and CSIS 3740.

CSCI 5820  Simulation  3 s.h.
Methods for modeling discrete event systems by algorithmic approaches using simulation languages.
Prereq.: CSIS 3700 and STAT 3743.

CSCI 5822  Database Design and Information Retrieval  3 s.h.
Study of physical database storage, relational and object data modeling, logical database design (normalization process), and structural query languages.
Prereq.: CSIS 3700 and CSCI 3710.

CSCI 5823  Communication Networks  3 s.h.
Study of network structures and topologies, international standards, models, communication media and protocols, hardware and software.
Prereq.: CSIS 3700 and either CSIS 3723 or CSIS 3740.

CSCI 5835  Artificial Intelligence  3 s.h.
Study of the theory and applications of intelligent systems. Topics may include general problem-solving techniques, knowledge representation and expert systems, vision and perception, and natural language processing. AI systems and languages.
Prereq.: CSIS 3700 or CSIS 3701.

CSCI 5840  Automata Theory  3 s.h.
Abstract models of computers, and the languages they generate or recognize. Finite state automata and regular expressions; Context-free grammars and pushdown automata; Turing machines. Limits of each model, including decidability and undecidability of computing-related problems. Applications of these models to areas such as input validation, security, language design, and compilers.
Prereq.: CSCI 3710.

CSCI 5857  Encoding and Encryption  3 s.h.
Securing computer and information systems through encoding and/or encryption. Private and public cryptographic methods, digital certificates and signatures, cryptographic techniques, key management, and database security issues.
Prereq.: CSIS 2605 or CSIS 2610; MATH 1513 or MATH 1552 or Math Placement Test of 4 or 40 or higher; and at least 3 s.h. of upper-division departmental courses.

CSCI 5860  Programming Language Structures  3 s.h.
Systematic approach to the study of the structures of programming languages. Formal descriptions, syntax, semantics and technical characteristics.
Prereq.: CSIS 3701 and CSCI 3710.

CSCI 5870  Data Structures and Algorithms  3 s.h.
Study and application of analysis and design techniques to nonnumerical algorithms. Topics selected from algorithms acting on sets, trees, graphs, memory management; notions of complexity and related areas.
Prereq.: CSIS 3700 and CSCI 3710.

CSCI 5881  Microcomputer System Architecture  3 s.h.
State-of-the-art course on microcomputer architecture. Topics include introduction to microcomputer systems, 16 and 32 bit microprocessors, direct memory access and other I/O transfer schemes, architecture of I/O processors, introduction to computer communications.
Prereq.: CSIS 3740 and CSCI 3780.

CSCI 5895  Special Topics  2-4 s.h.
A study of special topics in computer science. Subject matter and credit hours will be announced in advance. May be repeated multiple times if topic is different.
Prereq.: At least 3 s.h. of upper-division departmental courses, and permission of chair.

Information Technology

INFO 1575  Document Preparation  4 s.h.
Preparation of documents using information processing and standard and advanced electronic productivity tools such as templates, tables, columns, forms macros, graphics, and merging. Integration of documents with other software. Creating and maintaining hypertext documents.
Prereq.: Knowledge of word processing or ENGL 1550.

INFO 2600  Concepts of Information Technologies  3 s.h.
The foundation and general principles behind information technology, including data representation, encoding systems, encryption methods, database fundamentals, logic for programming, basic data analysis, and graph applications in networking.

INFO 2663  Information Technology Management  3 s.h.
Principles and practices of effective information systems management. Includes organization environment, leadership issues, information system types, strategic role of information technology, planning issues, managing and supporting essential technologies, system development and computing, and successful implementation of people and technology.
Prereq.: CSIS 1590 or INFO 2600.

INFO 2698  Special Topics  1-3 s.h.
An in-depth study of information technologies. Topics vary. May be repeated for different topics.
Prereq.: Permission of chairperson.

INFO 3704  Business Communication  3 s.h.
Prereq.: ENGL 1551.

INFO 3714  Advanced Spreadsheets  3 s.h.
Includes macros, look-up tables, advanced problems, templates, and projects with emphasis on accounting and finance applications.
Prereq.: CSIS 1514 or CSIS 1590.

INFO 3774  Advanced Spreadsheets  3 s.h.
Technical configurations, graphic creation, manipulation, exchange, and digital asset management. Web and multimedia audio and video. Video strategies on the Internet. Fundamental Web utility tools. Storyboarding strategies, layout, and design issues. Three hours lecture, two hours lab.
Prereq.: CSIS 1590.

INFO 3775  Multimedia Authoring  4 s.h.
A study of multimedia authoring tools. Methods for integrating text, graphics, sound, and video. Project required. Three hours lecture and two hours lab.
Prereq.: INFO 3774.
INFO 3776  Client-Side Scripting Techniques  4 s.h.
Scripting and the role of scripting languages in software development for the
web, and identifying key scripting languages used for the web. Developing,
debugging, and testing scripts for the web, and local and remote software
version control systems. Three hours lecture and two hours lab.
Prereq.: CSIS 1570, and CSIS 2605 or CSIS 2610.

INFO 3777  Computer Technology for Digital Image Processing  4 s.h.
Study of tools and technology for digital image processing. Creating and
capturing still and video images for use in Web site development. Techniques
used in compression and archiving of graphics files. Project required. Three
hours lecture and two hours lab.
Prereq.: INFO 3774.

INFO 3787  Training and Employee Development  3 s.h.
Theory and practice of designing training programs. Analyzing training needs,
selecting instructional strategies, and implementing and evaluating training
programs.
Prereq.: INFO 3774 or both INFO 1575 and CSIS 1590.

INFO 3790  Integrated Information Systems  3 s.h.
Students organize and operate an information center utilizing decision-
making skills, and information systems procedures and components. Lab time
required.
Prereq.: INFO 3714 or CSIS 3723.

INFO 4880  Information Technology Analysis and Design  3 s.h.
Information systems integration and modeling. Analysis of dynamic
information flow, functional requirements, and system design in theory and
practice.
Prereq.: CSIS 3722 and either CSIS 3723 or CSIS 3782.
Gen Ed: Capstone.

INFO 4895  Special Topics  2-4 s.h.
A study of special topics in information technologies. Subject matter and
credit hours will be announced in advance. May be repeated multiple times if
topic is different.
Prereq.: At least 3 s.h. of upper-division departmental courses and permission
of chair.

INFO 5875  Advanced Multimedia Authoring  4 s.h.
This course is a study of advanced multimedia authoring principles. Through
assigned reading, lab exercises, and lectures, you will generate guiding
principles of designing and developing effective multimedia materials.
Additionally, advanced-scripting language concepts toward developing
multimedia materials, integrating text, graphics, sound, and animation, will be
presented. 3 hours lecture and 2 hours lab.
Prereq.: INFO 3774 or INFO 3775 or INFO 3776.

Associate of Applied Science in
Computer Information Systems

The computer information systems program offers students the flexibility of
earning either a two-year AAS degree or continuing for an additional two years
to obtain a four-year BSAS degree through the two-plus-two program.

This discipline covers both the technical and end-user aspects of computing,
using PCs through mainframe computers with hands-on experience.

Student skills are developed in computation that includes:

- application programming
- networking and telecommunications
- database design
- cyber security
- analysis of complex business and technical environments

CIS graduates of the AAS degree program will continue their studies towards
a bachelor's degree in a computer or information technology area or obtain
employment as programmers, computer specialists, and in other closely
related fields.

CIS graduates of the BSAS degree program will obtain full-time employment
as programmers, network administrators, systems analysts, computer
specialists, and in other closely related fields.

Associate Degree Program

The computer information systems associate degree program emphasizes
the use of computers to solve business or science problems. The graduate
may be employed in positions involving direct use of microcomputers and
mainframe computers for business or science administration and decision
support applications. This degree may be earned in four semesters if students
average 16 hours per semester.

Students wishing to receive the Associate of Applied Science in computer
information systems must complete the following:

Course Title S.H.

FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements
ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
MATH 1570 Applied Calculus 1 4
2 Gen Ed courses from two of the three areas: NS (one must have a lab),
AH, or SS 6

Major Requirements
CSIS 1590 Fundamentals of Programming and Problem-Solving 3
CSIS 1595 Fundamentals of Programming and Problem-Solving 3
CSIS 2605 Fundamentals of Programming and Problem-Solving 3
CSIS 3722 Development of Databases 3
CSIS 3723 Networking Concepts and Administration 3
CSIS 3726 Visual/Object-Oriented Programming 4
CSIS 3760 Electronic Commerce Programming 3
ACCT 2602 Financial Accounting 3

Support Courses
ACCT 2603 Managerial Accounting 3
ENGL 3743 Professional and Technical Writing 3
PHIL 2619 Introduction to Logic 3

Electives
Select at least 5-6 additional semester hours of upper division CIS
electives. 6-7

Total Semester Hours 60-63

Year 1

Fall S.H.
YSU 1500 Success Seminar 1
CSIS 1590 Survey of Computer Science and Information Systems 3
CSIS 1595 Fundamentals of Programming and Problem-Solving 1 3
ENGL 1550 Writing 1 3
MATH 1570 Applied Calculus 1 4
Learning Outcomes

1. The Associates program in Computer Information Systems provides preparation for students to develop problem-solving techniques to aid in the design, coding, debugging and documentation of high-level programming languages.

2. The Associates program in Computer Information Systems provides preparation for students to understand the basic structure, design, development, implementation, and modification of databases for use in management of information systems.

3. The Associates program in Computer Information Systems provides preparation for students to understand network topologies and the design, administration, and performance monitoring of computer networks and network applications.

4. The Associates program in Computer Information Systems provides preparation for students to use visual/object-oriented programming languages to develop interactive, database and internet programs.

5. The Associates program in Computer Information Systems provides preparation for students to write programs for client/server systems related to electronic commerce using server-side languages such as Perl and client-side languages such as JavaScript.

Associate of Applied Science in Information Technology

Information technology provides systematic foundations that include methodologies and models for conceptualizing the complex dynamics of the Information Technology environment as it applies to information systems design and implementation.

IT professionals possess the right combination of knowledge and practical, hands-on expertise to take care of both an organization’s information technology infrastructure and the people who use it. They assume responsibility for selecting hardware and software products appropriate for an organization. They integrate those products with organizational needs and infrastructure and install, customize and maintain those applications, thereby providing a secure and effective environment that supports the activities of the organization’s computer users. In IT, programming often involves writing short programs that typically connect existing components (scripting).

Planning and managing an organization’s IT infrastructure is a difficult and complex job that requires a solid foundation in applied computing as well as management and people skills. Those in the IT discipline require special skills – in understanding, for example, how networked systems are composed and structured, and what their strengths and weaknesses are. There are important software systems concerns such as reliability, security, usability, and effectiveness and efficiency for their intended purpose; all of these concerns are vital. These topics are difficult and intellectually demanding.

The program supports work processes and employee performance enhancements; is designed to improve overall workgroup and individual productivity; and addresses the creation, distribution, storage, and use of information in all its states. Business processes are incorporated as an integral part of all course content. Information Technology encompasses:

- Client/Server Side Computing
- Project Management
- Multimedia
- Networks
- Database Systems
- System Analysis
- Information Security
- Network/ Cybersecurity
- Application Development
- E-Commerce Programming

IT graduates of the AAS degree program may continue their studies towards a bachelor’s degree in a computer or information technology area or may obtain full-time employment as web technicians, help desk support, network technicians, and in other closely related fields.

IT graduates of the BSAS degree program may obtain full-time employment as web designers, network administrators, multimedia developers, application developers, database managers, and in other closely related fields.

Associate Degree Program

Graduates of the associate degree program can pursue careers in service and support of information systems, as well as continuing on to a bachelor’s degree in information technology. This degree may be earned in four semesters if students average 15-16 hours per semester.

Students wishing to receive the Associate of Applied Science in information technology must complete the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YSU 1500 or SS 1500 or HONR 1500</td>
<td>Intro to Honors</td>
<td>1-2</td>
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<td>Strong Start Success Seminar</td>
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<td>Success Seminar</td>
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General Education Requirements

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>3-4</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management</td>
<td>4</td>
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</table>

Select 2 courses from 2 of the domains: AH, SS, or NS (one must include a lab) | 6 |

Major Requirements

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>CSIS 3722</td>
<td>Development of Databases</td>
</tr>
<tr>
<td>CSIS 3723</td>
<td>Networking Concepts and Administration</td>
</tr>
<tr>
<td>CIS or CSIS Elective</td>
<td>3</td>
</tr>
<tr>
<td>CIS or CSIS Elective</td>
<td>3</td>
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<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<thead>
<tr>
<th>Year 2</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>Spring</td>
<td>16</td>
</tr>
<tr>
<td>CSIS 3726</td>
<td>Visual/Object-Oriented Programming</td>
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<tr>
<td>CSIS 3760</td>
<td>Electronic Commerce Programming</td>
</tr>
<tr>
<td>CIS or CSIS Elective</td>
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<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>ENGL 3743</td>
<td>Professional and Technical Writing</td>
</tr>
</tbody>
</table>
Learning Outcomes

1. The Associate program in Information Technology provides preparation for student’s basic knowledge of technologies in the implementation and troubleshooting of networks.

2. The Associate program in Information Technology provides preparation for student’s basic knowledge of technologies in designing databases and extracting information using appropriate programs or applications.

3. The Associate program in Information Technology provides preparation for student’s basic knowledge of technologies in accessing information management processes and procedures and the application of technologies.

4. The Associate program in Information Technology provides preparation for student’s basic knowledge of technologies in developing interactive programs.

Bachelor of Science in Applied Science in Computer Information Systems

Bachelor's Degree Program

The computer information systems professional will develop his or her ability to conceptualize, design, and implement high-quality information systems based upon computer systems ranging from a single-user system to complex, interactive, and multi-user distributed systems. This degree may be earned in eight semesters if students average 15-16 hours per semester.

Curriculum Sheet

Students wishing to receive a Bachelor of Applied Science in Computer Information Systems must complete the following:

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Included in Support

COURSE TITLE S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements

ENGL 1550 Writing 1 3
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
Mathematics Requirement (met through MATH in major) Included in Support Courses

Arts and Humanities (6 s.h.)
PHIL 2625 Introduction to Professional Ethics (credits applied in major) 3
One additional Arts and Humanities course 3
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) 7
Social Science (6 s.h.) 6
Bachelor of Science in Applied Science in Computer Information Systems

Social and Personal Awareness (6 s.h.) 6

Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
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<tbody>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td>3</td>
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<tr>
<td>CSIS 1595</td>
<td>Fundamentals of Programming and Problem-Solving 1</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 2605</td>
<td>Fundamentals of Programming and Problem-Solving 2</td>
<td>3</td>
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<tr>
<td>CSIS 3722</td>
<td>Development of Databases</td>
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<td>CSIS 3723</td>
<td>Networking Concepts and Administration</td>
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<td>CSIS 3726</td>
<td>Visual/Object-Oriented Programming</td>
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<td>CSIS 3760</td>
<td>Electronic Commerce Programming</td>
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<tr>
<td>CIS 4840</td>
<td>Business System Analysis and Design</td>
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</table>

Departmental Electives

Select at least 21 additional semester hours from CSIS 1525, 2620, or Upper Division electives 21

Support Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
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<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3717</td>
<td>Statistical Methods</td>
<td>4</td>
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<tr>
<td>MATH 1570</td>
<td>Applied Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 3743</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2619</td>
<td>Introduction to Logic</td>
<td>3</td>
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</table>

Minor 18

Select at least 18 semester hours. Some Gen Ed courses may be included in the minor

Total Semester Hours 120-122

Four Year Plan

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Year 1

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tr>
<td>Fall</td>
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<td>YSU 1500 Success Seminar</td>
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<td>CSIS 1590 Survey of Computer Science and Information Systems</td>
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<td>CSIS 1595 Fundamentals of Programming and Problem-Solving 1</td>
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<td>ENGL 1550 Writing 1 or ENGL 1549 Writing 1 with Support</td>
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<td>MATH 1570 Applied Calculus 1</td>
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<td>GER Natural Science</td>
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Spring

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<tr>
<td>CSIS 2605</td>
<td>Fundamentals of Programming and Problem-Solving 2</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2619</td>
<td>Introduction to Logic</td>
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<tr>
<td>GER Social Science</td>
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Semester Hours 17-18

Year 2

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<th>Semester</th>
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<tbody>
<tr>
<td>Fall</td>
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<td>CSIS 3722 Development of Databases</td>
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<td>CSIS 3723 Networking Concepts and Administration</td>
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<td>CIS/CIS Upper Division Elective</td>
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<td>ACCT 2602 Financial Accounting</td>
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Semester Hours 15

Spring

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<th>Course Code</th>
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<tbody>
<tr>
<td>CSIS 3726</td>
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<td>CSIS 3760</td>
<td>Electronic Commerce Programming</td>
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<td>ACCT 2603</td>
<td>Managerial Accounting</td>
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<td>ENGL 3743</td>
<td>Professional and Technical Writing</td>
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Semester Hours 16

Year 3

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<th>S.H.</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td>CIS/CIS Upper Division Elective</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>PHIL 2625 Introduction to Professional Ethics (AH)</td>
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<tr>
<td></td>
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<td>STAT 3717 Statistical Methods</td>
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<td>Minor course</td>
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<tr>
<td></td>
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<td>GER Social &amp; Personal Awareness</td>
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Semester Hours 16

Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>CIS/CIS Upper Division Elective</td>
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<tr>
<td>CIS/CIS Upper Division Elective</td>
<td>3</td>
<td></td>
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<tr>
<td>Minor course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GER Natural Science + Lab</td>
<td>4</td>
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<tr>
<td>GER Social Science</td>
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Semester Hours 15

Year 4

<table>
<thead>
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<th>Course Title</th>
<th>Semester Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td>CIS/CIS Upper Division Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CIS/CIS Upper Division Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Minor course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>GER Arts &amp; Humanities</td>
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</tr>
<tr>
<td></td>
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<td>GER NS, AH, SS, or SPA</td>
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Semester Hours 15

Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>CIS 4840</td>
<td>Business System Analysis and Design</td>
<td>4</td>
</tr>
<tr>
<td>CIS/CIS Upper Division Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Minor course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GER Social &amp; Personal Awareness</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Semester Hours 13

Total Semester Hours 123-124

The Bachelor's Program in Computer Information Systems provides preparation for students:

- to develop problem-solving techniques to the design, coding, debugging and documentation of high-level programming languages.
- to analyze the basic structure, design, development, implementation, and modification of databases for use in information systems.
- to analyze network topologies and the design, administration, and performance monitoring of computer networks and network applications.
- to use visual/object-oriented programming languages to develop interactive, database and internet programs.
- to write programs for client/server web systems related to electronic commerce using server-side languages such as Perl and client-side languages such as JavaScript.
- to demonstrate oral communication skills for the analysis, design, development, and maintenance of business systems.
- to demonstrate written communication skills for the analysis, design, development, and maintenance of business systems.

Learning Outcomes
1. The Bachelors program in Computer Information Systems provides preparation for students to develop problem-solving techniques to aid in the design, coding, debugging and documentation of high-level programming languages.

2. The Bachelors program in Computer Information Systems provides preparation for students to analyze the basic structure, design, development, implementation, and modification of databases for use in management of information systems.

3. The Bachelors program in Computer Information Systems provides preparation for students to analyze network topologies and the design, administration, and performance monitoring of computer networks and network applications.

4. The Bachelors program in Computer Information Systems provides preparation for students to use visual/object-oriented programming languages to develop interactive, database and internet programs.

5. The Bachelors program in Computer Information Systems provides preparation for students to write programs for client/server web systems related to electronic commerce using server-side languages such as Perl and client-side languages such as JavaScript.

6. The Bachelors program in Computer Information Systems provides preparation for students to demonstrate oral communication skills for the analysis, design, development and maintenance of business systems.

7. The Bachelors program in Computer Information Systems provides preparation for students to demonstrate written communication skills for the analysis, design, development and maintenance of business systems.

Bachelor of Science in Applied Science in Information Technology

Information technology provides systematic foundations that include methodologies and models for conceptualizing the complex dynamics of the Information Technology environment as it applies to information systems design and implementation.

IT professionals possess the right combination of knowledge and practical, hands-on expertise to take care of both an organization’s information technology infrastructure and the people who use it. They assume responsibility for selecting hardware and software products appropriate for an organization. They integrate those products with organizational needs and infrastructure and install, customize and maintain those applications, thereby providing a secure and effective environment that supports the activities of the organization’s computer users. In IT, programming often involves writing short programs that typically connect existing components (scripting).

Planning and managing an organization’s IT infrastructure is a difficult and complex job that requires a solid foundation in applied computing as well as management and people skills. Those in the IT discipline require special skills – in understanding, for example, how networked systems are composed and structured, and what their strengths and weaknesses are. There are important software systems concerns such as reliability, security, usability, and effectiveness and efficiency for their intended purpose; all of these concerns are vital. These topics are difficult and intellectually demanding.

The program supports work processes and employee performance enhancements; is designed to improve overall workforce and individual productivity; and addresses the creation, distribution, storage, and use of information in all its states. Business processes are incorporated as an integral part of all course content. Information Technology encompasses:

- Information Security
- Network/ Cybersecurity
- Application Development
- E-Commerce Programming

IT graduates of the AAS degree program may continue their studies towards a bachelor’s degree in a computer or information technology area or may obtain full-time employment as web technicians, help desk support, network technicians, and in other closely related fields.

IT graduates of the BSAS degree program may obtain full-time employment as web designers, network administrators, multimedia developers, application developers, database managers, and in other closely related fields.

Bachelor’s Degree Program

The information technology professional will develop his or her ability to conceptualize, design, and implement high-quality information systems based upon computer systems ranging from single-user systems to complex, interactive, and multi-user distributed systems.

IT majors will choose to follow one of several concentration areas:

- Database
- E-commerce Programming
- Multimedia/Web Design
- Networking
- Security
- Software Development

This degree may be earned in eight semesters if students average 16 hours per semester.

Students wishing to receive the Bachelor of Applied Science in information technology must complete the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>YSU 1500 or SS 1500 or HONR 1500</td>
<td>Intro to Honors</td>
<td>1-2</td>
</tr>
<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 with Support</td>
<td>3-4</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics Requirement</strong></td>
<td>Included in Support Courses</td>
<td></td>
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</tbody>
</table>

**General Education Requirements**

- Met through MATH support course in major
- Arts and Humanities (6 s.h.)
- PHIL 2625 Introduction to Professional Ethics 3
- One additional Arts and Humanities course 3
- Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) 7
- Social Science (6 s.h.) 6
- Social and Personal Awareness (6 s.h.) 6

**Major Requirements**

- CSIS 1525 Survey of Modern Operating Systems 3
- CSIS 1570 Web Systems and Technologies 3
- CSIS 1590 Survey of Computer Science and Information Systems 3
- CSIS 1595 Fundamentals of Programming and Problem-Solving 1 3
- CSIS 2605 Fundamentals of Programming and Problem-Solving 2 3
- CSIS 3722 Development of Databases 3
Bachelor of Science in Applied Science in Information Technology

<table>
<thead>
<tr>
<th>Course/Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIS 3723 Networking Concepts and Administration</td>
<td>3</td>
</tr>
<tr>
<td>or CSIS 3782 Cisco Networking Academy 1</td>
<td></td>
</tr>
<tr>
<td>CSIS 3731 Human-Computer Interaction</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3755 Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>INFO 2663 Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>INFO 4880 Information Technology Analysis and Design</td>
<td>3</td>
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</tbody>
</table>

**Concentration area**

9

**Database Concentration**

- CSIS 3726 Visual/Object-Oriented Programming                                        3
- CSIS 4822 Database Applications                                                     3
- INFO 3714 Advanced Spreadsheets                                                     3

**E-Commerce Concentration**

- CSIS 2660 Foundations of Electronic Commerce                                        3
- CSIS 3760 Electronic Commerce Programming                                           3
- CSIS 3761 Electronic Commerce Strategies                                            3

**Multimedia Concentration**

- CSIS 3760 Electronic Commerce Programming                                           3
- INFO 3775 Multimedia Authoring                                                      3
- INFO 3776 Client-Side Scripting Techniques                                           3
- INFO 3777 Computer Technology for Digital Image Processing                          3
- INFO 5875 Advanced Multimedia Authoring                                             3

**Networking Concentration**

- CSIS 2620 System Configuration and Maintenance                                      3
- CSIS 3783 Cisco Networking Academy 2                                                3
- CSIS 4823 Data Communications Networking                                            3
- CSIS 5883 Remote Access and Multilayer Switched Networks                            3
- CSIS 5884 Building Scalable Networks and Advanced Internetwork Troubleshooting      3

**Security Concentration**

- CSIS 2620 System Configuration and Maintenance                                      3
- CSIS 3756 Security Design                                                           3
- CSIS 3757 Computer Forensics                                                        3
- CSCI 5857 Encoding and Encryption                                                    3
- CSCI 5895 Special Topics                                                            3

**Application Development Concentration**

- CSIS 3700 Data Structures and Objects                                               3
- CSIS 3701 Advanced Object-oriented Programming                                       3
- CSIS 3726 Visual/Object-Oriented Programming                                         3
- CSIS 3760 Electronic Commerce Programming                                           3
- CSIS 4878 Mobile Application Development                                            3
- CSCI 5801 Software Engineering                                                      3

**Departmental Electives**

Select at least 6 additional semester hours of upper division Information Technology or CSIS courses. CSCI or CIS courses numbered 3000 and above may also be used as electives with advisor approval. 6

**Support Courses**

- STAT 2601 Introductory Statistics                                                   3
- MATH 1552 Applied Mathematics for Management                                        4
- INFO 3704 Business Communication                                                   3
- or ENGL 3743 Professional and Technical Writing                                    3

**Minor**

Select at least 18 s.h. from an unspecified minor. 18
Free Electives Any courses to meet 120 total hours                                      9

**Total Semester Hours**

120-122

**Year 1**

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>1</td>
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</table>
| CSIS 1500 Success Seminar                                                            3
| CSIS 1590 Survey of Computer Science and Information Systems                       3
| CSIS 1595 Fundamentals of Programming and Problem-Solving 1                         3
| GER Natural Science + Lab                                                            4

**Semester Hours**

14-15

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>16</td>
</tr>
</tbody>
</table>
| ENGL 1551 Writing 2                                                                  3
| CSIS 1525 Survey of Modern Operating Systems                                         3
| CSIS 2605 Fundamentals of Programming and Problem-Solving 2                          3
| MATH 1552 Applied Mathematics for Management                                         4
| CMST 1545 Communication Foundations                                                 3

**Year 2**

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
</tbody>
</table>
| CSIS 1570 Web Systems and Technologies                                               3
| CSIS 3722 Development of Databases                                                   3
| INFO 2663 Information Technology Management                                         3
| STAT 2601 Introductory Statistics                                                   3
| GER Arts & Humanities                                                               3

**Semester Hours**

15

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>15</td>
</tr>
</tbody>
</table>
| CSIS 3731 Human-Computer Interaction                                                 3
| CSIS 3723 Networking Concepts and Administration or Cisco Networking Academy 1      3
| INFO 3704 Business Communication or ENGL 3743 Professional and Technical Writing   3
| Minor Course                                                                          3
| GER Social Science                                                                   3

**Year 3**

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>15</td>
</tr>
</tbody>
</table>
| CSIS 3755 Information Assurance                                                      3
| INFO/CSIS UD Elective                                                                  3
| Minor Course                                                                          3
| GER Social & Personal Awareness                                                        3
| GER Arts & Humanities                                                                  3

**Semester Hours**

15

<table>
<thead>
<tr>
<th>Semester</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>3</td>
</tr>
</tbody>
</table>
| IT Concentration                                                                      3
| PHIL 2625 Introduction to Professional Ethics                                         3
| Free elective                                                                         3
| Minor Course                                                                          3
| GER Social Science                                                                    3

Request a Graduation Evaluation after completing 80-85 s.h. from the STEM Advising Center, 2325 Moser Hall, (330) 941-2512.

**Year 4**

<table>
<thead>
<tr>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>3</td>
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</tbody>
</table>
| IT Concentration                                                                      3
| INFO/CSIS UD elective                                                                  3

**Semester Hours**

15
Learning Outcomes:
The Bachelor program in Information Technology provides preparation and instruction that enables students:

1. to analyze computing technology related problems, identify and define computing technology requirements to address these problems
2. to design, implement, and evaluate computing technologies to meet the needs of organizations or individuals using current techniques, skills, and tools
3. to communicate with clients effectively while understanding their needs and identifying appropriate solutions
4. to work collaboratively within a team environment to achieve its goal(s)
5. to understand the need and importance of continuous professional development
6. to recognize the technical and legal issues involved with technologies and concepts used in information technology
7. to offer solutions and perform required tasks in networking design, implementation, and administration; information assurance and security; database design, development, and administration; interactive program design and development; e-commerce design, development, and implementation; and report and document preparation.

Bachelor of Science in Computer Science

Computer Science spans the range from theory through programming to cutting-edge development of computing solutions. Computer Science offers a foundation that permits graduates to adapt to new technologies and new ideas. The work of computer scientists falls into three categories:

- designing and building software
- developing effective ways to solve computing problems, such as storing information in databases, sending data over networks, or providing new approaches to security problems
- devising new and better ways of using computers and addressing particular challenges in areas such as robotics, computer vision, or digital forensics

Like most Computer Science programs, the YSU Computer Science major requires a significant mathematical background.

The Computer Science program leads to the degree of Bachelor of Science. The flexibility of the program allows the student many choices including a second minor.

This degree may be earned in eight semesters if students average 15 hours per semester.

The benefits of Computer Science bachelor's degree include:

- The median annual salary of $100,690 for software developers*
- 17% projected job growth for software developers through 2024*

The advantages of pursuing a Computer Science bachelor's degree at YSU include:

- Multiple terms throughout the year help you to start anytime to complete your degree.
- Full-time faculty accessibility at any time
- Full-time faculty coverage of core courses
- One of the lowest tuition rates in the nation
- Gain insight into the practical issues of building systems by participating in intensive project-oriented courses.
- Enables students to complement their formal foundation in CS with the flexibility to pursue additional studies in other disciplines.

Computer Science spans the range from theory through programming to cutting-edge development of computing solutions. Computer Science offers a foundation that permits graduates to adapt to new technologies and new ideas. The work of computer scientists falls into three categories:

- designing and building software
- developing effective ways to solve computing problems, such as storing information in databases, sending data over networks, or providing new approaches to security problems
- devising new and better ways of using computers and addressing particular challenges in areas such as robotics, computer vision, or digital forensics

Like most Computer Science programs, the YSU Computer Science major requires significant mathematical background.
The Computer Science program leads to the degree of Bachelor of Science. The flexibility of the program allows the student many choices including a second minor.

This degree may be earned in eight semesters if students average 16 hours per semester.

In addition to completing all general University requirements, students wishing to receive the Bachelor of Science in computer science must complete the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
<td></td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tr>
<td><strong>General Education Requirements</strong></td>
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</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics Requirement</strong></td>
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<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
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<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
<td>3</td>
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<tr>
<td>Arts and Humanities (1 course)</td>
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<tr>
<td>Natural Sciences (2 courses; one course must include a lab)</td>
<td>6-7</td>
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</tr>
<tr>
<td>Social Science (2 courses)</td>
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<td>6</td>
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<tr>
<td>Social and Personal Awareness (2 courses)</td>
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<td>6</td>
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<tr>
<td><strong>Major Requirements</strong></td>
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</tr>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
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</tr>
<tr>
<td>CSIS 3700</td>
<td>Data Structures and Objects</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3701</td>
<td>Advanced Object-oriented Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3740</td>
<td>Computer Organization</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 3710</td>
<td>Introduction to Discrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5806</td>
<td>Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5801</td>
<td>Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 5870</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 4890</td>
<td>Computer Projects (at least 2 s.h.)</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 3743</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Select at least 12 additional semester hours from CSCI or CSIS courses.</strong></td>
<td>12</td>
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<tr>
<td>This must include at least 9 s.h. from the following courses:</td>
<td></td>
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</tr>
<tr>
<td>CSIS 3722: Development of Databases</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSIS 3723: Networking Concepts and Administration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSIS 3755: Information Assurance</td>
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<tr>
<td>CSCI 3770: Survey of Programming Languages</td>
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<tr>
<td>CSCI 5840: Theory of Finite Automata</td>
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<tr>
<td><strong>Mathematics Minor</strong></td>
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<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3720</td>
<td>Linear Algebra and Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3743</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td><strong>Additional MATH course</strong> To meet 18 hour minor</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td><strong>Free Electives</strong> Any courses to meet 120 total hours</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td>120-124</td>
<td></td>
</tr>
</tbody>
</table>
Request a Graduation Evaluation after completing 80-85 s.h. from the STEM Advising Center, 2325 Moser Hall, (330) 941-2512.

Learning Outcomes

Computer science students in the BS degree program will:

- be able to analyze, design, implement and test computer programs by using the appropriate data structures and algorithms.
- obtain full-time employment as programmers, systems analysts, computer specialists and in other closely related fields or/and acceptance to graduate programs.
- communicate effectively with written reports and presentations.

Minor in Computer Databases

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3722</td>
<td>Development of Databases</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3726</td>
<td>Visual/Object-Oriented Programming</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3732</td>
<td>Intranet Database Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 4822</td>
<td>Database Applications</td>
<td>3</td>
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</tbody>
</table>

Total Semester Hours 20

Minor in Computer Networking

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td>3</td>
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</tbody>
</table>

Select at least 15 hours from the following: 15-16

- CSIS 3723 Networking Concepts and Administration
- CSIS 3782 Cisco Networking Academy 1
- CSIS 3783 Cisco Networking Academy 2
- CSIS 4823 Data Communications Networking
- CSIS 5883 Remote Access and Multilayer Switched Networks
- CSIS 5884 Building Scalable Networks and Advanced Internetwork Troubleshooting
- CSCI 5823 Communication Networks

Total Semester Hours 18-19

Minor in Computer Science

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3700</td>
<td>Data Structures and Objects</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3701</td>
<td>Advanced Object-oriented Programming</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following: 9-10

- CSIS 3730 Computer Graphics
- CSIS 3740 Computer Organization
- CSIS 3760 Electronic Commerce Programming
- CSIS 4819 Parallel and Distributed Computing
- CSIS 5824 Applied Artificial Intelligence
- CSCI 5806 Operating Systems
- CSCI 5814 Computer Architecture
- CSCI 5870 Data Structures and Algorithms

Total Semester Hours 20-21

Minor in Electronic Commerce Technology

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 2660</td>
<td>Foundations of Electronic Commerce</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3732</td>
<td>Intranet Database Implementation</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3760</td>
<td>Electronic Commerce Programming</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3761</td>
<td>Electronic Commerce Strategies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 19

Minor in Information Systems Programming

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
<td>4</td>
</tr>
</tbody>
</table>

Select at least 14 hours from the following: 14

- CSIS 3700 Data Structures and Objects
- CSIS 3701 Advanced Object-oriented Programming
- CSIS 3714 Assembly Language and Architecture
- CSIS 3726 Visual/Object-Oriented Programming
- CSIS 3735 UNIX Environment
- CSIS 3760 Electronic Commerce Programming

Total Semester Hours 18

Minor in Integrated Technologies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFO 1575</td>
<td>Document Preparation</td>
<td>4</td>
</tr>
<tr>
<td>INFO 3714</td>
<td>Advanced Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>INFO 3774</td>
<td>Multimedia Technology</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two of the following: 6

- INFO 3787 Training and Employee Development
- CSIS 3723 Networking Concepts and Administration
- CSIS 3722 Development of Databases

Total Semester Hours 20

Minor in Interdisciplinary Game Studies

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2691</td>
<td>Introduction to Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ART 3748</td>
<td>Special Topics in Studio Art</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 1595</td>
<td>Fundamentals of Programming and Problem-Solving</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 3737</td>
<td>Game Programming</td>
<td>3</td>
</tr>
<tr>
<td>MUIN 1561</td>
<td>Music Recording Workshop</td>
<td>4</td>
</tr>
<tr>
<td>MUIN 3762</td>
<td>Digital Sound Production</td>
<td>2</td>
</tr>
</tbody>
</table>

If any of the above are required for your major, you must find an appropriate replacement course from the list below. The replacement course(s) must be in a department different from your own.

- ART 1501 Fundamentals of 2D Design                  3
- ART 1521 Foundation Drawing                         3
Bachelor of Science in Applied Science Degree

The Civil and Construction Engineering Technology (CCET), Electrical Engineering Technology (EET), and Mechanical Engineering Technology (MET) programs are based on the "two-plus-two" educational system which provides the student with the flexibility of earning an associate degree and a bachelor's degree according to his or her needs. After completing the requirements of the associate degree, the student may elect to: a) continue their education in pursuit of a bachelor degree which is two years of full-time study (averaging 17 hours per semester) or equivalent part-time study, earn the Bachelor of Science in Applied Science (BSAS); b) pursue professional employment; or c) enter industry and continue their education in pursuit of a bachelor degree.

Graduates of a BSAS degree program obtain employment as engineers or engineering designers for government agencies, consulting engineers, architects, industry and manufacturing, and contractors. Because their education is more extensive, they are prepared for more responsibility and more-rapid advancement. BSAS engineering technology graduates work as engineers doing design work, inspectors, project managers, production and maintenance managers/supervisors.

Based on an evaluation of their work, transfer students who have a related associate degree from a regionally accredited institution may be admitted to the bachelor's degree program at the junior level.

Accreditation and Registration

The Civil and Construction, Electrical, and Mechanical Engineering Technology associate and bachelor programs are accredited by the ETAC Accreditation Commission of ABET, http://www.abet.org. In most states, including Ohio, West Virginia and Pennsylvania, bachelor's degree graduates are qualified to take the Fundamentals of Engineering (FE) exam, and, with sufficient work experience, the Professional Engineers (PE) exam. Graduates are also qualified to apply to the National Institute for Certification in Engineering Technologies (NICET) for certification procedures in various specialty areas, depending on academic major and employment area.

Admission Requirements

Admission to all of engineering technology programs requires at least one year of high school algebra and one year of high school geometry with grades of "C" or better. Transfer students must be in good standing at their previous institution. All freshmen must take the Mathematics Placement Test prior to admission into an engineering technology program.

Students not meeting the admission requirements are enrolled as pre-majors in the College of Science, Technology, Engineering, and Mathematics. While advising is provided by professional advisors within the college, these students are also encouraged to see the coordinator of the program in which they are interested for further orientation.

Qualified engineering technology students must enroll in the ENTC 1505 Engineering Technology Concepts course. It is designed to acquaint students with the nature of the engineering career area, and therefore assist prospective students in determining the level of their interest. ENTC 1505 Engineering Technology Concepts is required of all engineering technology majors.

Power Plant (Electrical Utilities) Technology

This program prepares graduates to perform basic operating functions required in electric or gas utility power plants and other related industries. Students gain knowledge in:

- electrical machinery and controls
- power plant operations
- boiler, turbine, and generator operations
Graduates with a civil and construction engineering technology degree will possess the following competencies upon graduation:

• Secure employment and achieve recognition in a technical career related to their civil and construction engineering technology degree.
• Continue to gain professional knowledge through lifelong learning and communicate effectively in a professional environment

Learning Outcome 2
• Implement construction contracts, documents, and codes
• Utilize computer-aided design software to create and modify construction documents and layouts
• Demonstrate knowledge of construction materials and their properties

Learning Outcome 3
• Perform economic analyses and cost estimates related to design, construction, and operations of systems related to civil and construction engineering
• Apply principles of economics and finance to construction projects

Learning Outcome 4
• Continue to gain professional knowledge through lifelong learning and communicate effectively in a professional environment
• Advance in pursuit of the BSAS degree

Program Educational Objectives

Educational objectives for the civil and construction engineering technology program have been developed by faculty and the program industrial advisory committee to support the university, college, program mission. Graduates of the CCET associate degree program are prepared to:

• Secure employment and achieve recognition in a technical career related to their civil and construction engineering technology degree.
• Continue to gain professional knowledge through lifelong learning and communicate effectively in a professional environment
• Advance in pursuit of the BSAS degree

Bachelor's degree graduates are prepared to assist with planning, design, inspection, and direction of the construction of projects involving buildings, roads, dams, bridges, airports, and wastewater treatment facilities.

During their first few years after earning the CCET bachelor degree at YSU, graduates will have demonstrated the ability to:

• Secure employment and achieve recognition in a technical career related to their civil and construction engineering technology degree.
• Continue to gain professional knowledge through lifelong learning and communicate effectively in a professional environment

Program Outcomes

Graduates with a civil and construction engineering technology degree will achieve the following learning outcomes by the time they graduate:

Associate of Applied Science Degree Program

Program Outcomes

Graduates of the associate degree in civil and construction engineering technology will possess the following competencies upon graduation:

• Learning Outcome 1: use graphic techniques to produce engineering documents and use modern instruments, methods, and techniques to implement construction contracts, documents, and codes
• Learning Outcome 2: conduct standardized field/laboratory testing on civil engineering materials and evaluate materials/methods for construction projects
• Learning Outcome 3: utilize modern surveying methods for land measurement and/or construction layout
• Learning Outcome 4: determine forces and stresses in elementary structural systems
• Learning Outcome 5: estimate material quantities and costs for technical projects
• Learning Outcome 6: employ productivity software to solve technical problems

Bachelor of Science in Applied Science Degree Program

Graduates of the bachelor degree in civil and construction engineering technology will possess the following competencies upon graduation:

• Learning Outcome 1: ability to plan, prepare, and utilize design, construction, and operations documents, such as specifications, contacts, change orders, engineering drawings, and construction schedules
• Learning Outcome 2: perform economic analyses and cost estimates related to design, construction, operations, and maintenance of systems related to civil and construction engineering
• Learning Outcome 3: ability to select appropriate construction and engineering materials/practices
• Learning Outcome 4: (Construction Engineering Technology) ability to apply principles of construction law and ethics
• Learning Outcome 5: apply basic technical concepts related to the civil and construction engineering technology field; such as hydraulics, hydrology, geotechnics, structures, material behavior, transportation systems, and water and wastewater systems
• Learning Outcome 6: perform standard analysis/design in at least one technical specialty within civil and construction engineering technology

Electrical Engineering Technology

Students in the Electrical Engineering Technology (EET) program may choose to complete two years of study and earn an Associate of Applied Science (AAS) degree. The AAS degree provides early access to employment in support positions. Upon completion of the AAS degree, the student may continue on for the Bachelor of Science in Applied Science (BSAS) degree. This program provides additional coursework, continuing the student's growth to that of an engineering technologist or designer. Exceptional students may be eligible for enrollment in a Master of Engineering, Engineering Management, or Master of Business Administration program.

Program Educational Objectives

Educational objectives for the electrical engineering technology program have been developed by faculty and the program industrial advisory committee to support the university, college, program mission. Graduates of the EET associate degree program are prepared to:

• Secure employment and achieve recognition in a technical career related to their Electrical Engineering Technology degree.
• Continue to gain professional knowledge through lifelong learning and communicate effectively in a professional environment
• Advance in pursuit of the BSAS degree

Bachelor's degree graduates are prepared to assist with planning, design, inspection, and direction of the electrical engineering projects involving electrical systems, industrial automation, smart grid and power distribution, and computer networking systems.

During their first few years after earning the EET bachelor degree at YSU, graduates will have demonstrated the ability to:

• Secure employment and achieve recognition in a technical career related to their Electrical Engineering Technology degree.
• Continue to gain professional knowledge through lifelong learning and communicate effectively in a professional environment

Program Outcomes

Graduates in electrical engineering technology will achieve the following learning outcomes by the time they graduate:
Associate of Applied Science
Graduates of the Associate Degree EET program will possess the following competencies upon graduation.

- Learning Outcome 1: be able to apply principles of mathematics and applied science, to perform technical calculations and solve technical problems of the types commonly encountered in electrical engineering technology careers
- Learning Outcome 2: demonstrate the ability to identify, formulate, and present creative solutions to technical problems in a variety of specialty areas within the broad fields of electrical engineering technology
- Learning Outcome 3: be able to function competently in a laboratory setting, making measurements, operating technical equipment, critically examining experimental results, and properly reporting on experimental results, including their potential for improvement
- Learning Outcome 4: be able to use modern computational tools for technical problem solving, including scientific calculators, computers, and appropriate software.
- Learning Outcome 5: demonstrate a broad education and knowledge of contemporary issues in a global and societal context, as necessary to develop professional and ethical responsibility, including responsibility to employers and to society at large
- Learning Outcome 6: recognize the need for life-long learning and possess the skills to maintain and improve technical and non-technical abilities
- Learning Outcome 7: demonstrate an ability to communicate and function effectively with members of multi-disciplinary teams from a variety of backgrounds.
- Learning Outcome 8: demonstrate an ability to utilize computer software applications used in electrical engineering technology such as CAD, spreadsheets, word processing, and basic programming

Bachelor of Science in Applied Science
Graduates of the bachelor's degree EET program will possess the following competencies upon graduation.

- Learning Outcome 1: be able to apply principles of mathematics and applied science, to perform technical calculations and solve technical problems of the types commonly encountered in electrical engineering technology careers
- Learning Outcome 2: demonstrate the ability to identify, formulate, and present creative solutions to technical problems in a variety of specialty areas within the broad fields of electrical engineering technology
- Learning Outcome 3: be able to function competently in a laboratory setting, making measurements, operating technical equipment, critically examining experimental results, and properly reporting on experimental results, including their potential for improvement
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- Learning Outcome 6: recognize the need for life-long learning and possess the skills to maintain and improve technical and non-technical abilities
- Learning Outcome 7: demonstrate an ability to communicate and function effectively with members of multi-disciplinary teams from a variety of backgrounds
- Learning Outcome 8: the ability to identify, formulate, and solve engineering problems in the following major electrical engineering technology disciplines: analog and digital electronics, communication systems, power, aerospace and computer systems.
- Learning Outcome 9: the knowledge of professional practice issues, with an understanding of social responsibilities and a respect for diversity

Associate Degree Program
Graduates of the two-year electrical engineering technology program generally function as assistants to electrical engineers in the design, analysis, and laboratory testing of electrical and electronic systems and of rotating machinery. Most graduates are employed by electrical and electronic equipment manufacturers, utility companies, the aerospace industry, and manufacturing companies in general.

Bachelor's Degree Program
The bachelor's degree program in electrical engineering technology prepares students for employment as engineering technologists or engineering designers. The students focus on analog and digital electronics communication systems, smart grid and power distribution, and computer networking systems. Co-op programs with various local companies enable EET students to gain experience and income during their junior and senior years. Many students work full or part-time while completing the BSAS degree taking evening classes. Students are encouraged to take the Fundamentals of Engineering (FE) exam as the first step toward professional registration.

Mechanical Engineering Technology
The Mechanical Engineering Technology (MET) program is designed as a "two-plus-two" program. Students may earn an Associate of Applied Science degree after two years of full-time study. With this degree, they may begin a career in industry. The associate degree graduate can continue for two more years of full-time study to earn the bachelor's degree.

Program Educational Objectives
Educational objectives for the MET program have been developed by faculty and the program industrial advisory committee to support the university, the college, and the program mission. Graduates of the MET associate degree program function as assistants in the design, drafting and testing of mechanical products, equipment and processes. Bachelor's degree graduates assume greater responsibility in the design and testing of mechanical products, manufacturing processes, equipment.

During their first few years after completion of the mechanical engineering technology program at YSU, graduates will have demonstrated the ability to:

- Work competently in technical and professional careers related to the field of mechanical engineering technology.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition and/or compensation consistent with their educational achievements.

Program Outcomes
Associate of Applied Science
Graduates of the associate degree MET program will possess the following competencies upon graduation:

- mastery of knowledge, skills, and tools of the discipline
- ability to apply knowledge to solve engineering problems
- ability to conduct, analyze, and interpret experiments
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical, social, and diversity responsibilities and diversity
- commitment to quality, timeliness, and continuous improvement

Bachelor of Science in Applied Science
Graduates of the bachelor’s degree MET program will possess the following competencies upon graduation:

- mastery of knowledge, skills, and tools of the discipline
- ability to apply knowledge to solve engineering problems
- ability to conduct, analyze, and interpret experiments
- ability to be creative in design
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical, and social responsibilities
- respect for diversity, professional, societal, and global issues
- commitment to quality, timeliness, and continuous improvement

Professor
Theodore R. Bosela, Ph.D., Professor
Michael D. Costarell, M.S.M.E., Professor
Robert J. Korenic, M.S.E., Associate Professor
Carol M. Lamb, Ph.D., Professor, Director
John D. Martin, M.S., Associate Professor
Daniel J. Opalewski, Ph.D., Assistant Professor
Joseph S. Sanson, M.S., Associate Professor
Brian D. Vuksanovich, M.S.M.E., Associate Professor
Jason Zapka, M.S., Assistant Professor

Lecturer
Brian M. Ennis, Ph.D., Lecturer

Majors
- Power Plant (Electrical Utilities) Technology Associate of Technical Studies (p. 473)
- Civil and Construction Engineering Technology Associate Degree Program (p. 469)
- Civil and Construction Engineering Technology Bachelor's Degree Program (p. 474)
- Electrical Engineering Technology Associate Degree Program (p. 471)
- Electrical Engineering Technology Bachelor's Degree Program (p. 476)
- Mechanical Engineering Technology Associate Degree Program (p. 472)
- Mechanical Engineering Technology Bachelor's Degree Program (p. 478)

Minors
- Minor in Electrical Engineering Technology (p. 480)

Civil and Construction Engineering Technology
CCET 1503 CAD Technology 2 s.h.
Basic instruction in the use of AutoCAD computer-aided drafting system. Includes primary 2D skills including dimensioning, blocks, external reference and plotting. Customization methods and an introduction to application programming. One and one-half hours lecture, one and one-half hours lab per week. Grading is A, B, C, NC. Prereq. or: Prereq.: C or better in MATH 1510 or MATH 1510C.
Coreq.: MATH 1513 or MATH 1511 or 1511C or at least Level 45 on the Mathematics Placement test.

CCET 1504 Drafting and Plan Reading 2 s.h.
Drafting basics including plan, section, and elevation views; orthographic projections; line types and weights; drafting scales; dimensioning; tolerances; grading and contours, and construction layout for the civil, mechanical, and electrical technology disciplines. Development of skills in the interpretation and preparation of plans used for civil, mechanical, and electrical construction and fabrication. One and one-half hours lecture, one and one-half hours laboratory per week. Grading is A, B, C, NC. Prereq.: C or better in MATH 1510 or MATH 1510C.
Coreq.: MATH 1513 or MATH 1511 or MATH 1511C or at least Level 45 on Mathematics Placement Test.

CCET 2604 Properties and Strength of Materials 3 s.h.
Introduction to the physical and chemical properties of materials and their behavior under various loads and environments. Concepts of stress and strain developed and evaluated for the application of axial, shear, torsional, and bending loads. Four (4) hours lecture per week. Prereq. or. Prereq.: Grade of “C” or better in ENTC 1505 and MATH 1513 or MATH 1510 or MATH 1510C and MATH 1511 or MATH 1511C.
Coreq.: MET 1515.

CCET 2607 Civil 3D 3 s.h.
Civil 3D is a course intended to prepare students for entry-level production use of AutoCAD Civil 3D 2015. The primary goal of this class is to teach students how to use the software, but it is also an opportunity to show them how projects are executed and what types of roles they will play in completing them. One (1) hour lecture and three (3) hours lab per week. Prereq.: "C" or better in CCET 1503 and CCET 1504.

CCET 2614L Materials Laboratory 1 2 s.h.
Use and care of testing equipment, data retrieval, data reduction and report preparation. Physical testing of metals, concrete, aggregates, asphalts, soils and woods. Three hours per week. Prereq or concurrent: CCET 2604.

CCET 2617 Construction Methods and Materials 3 s.h.
Basic properties of construction materials. Processing and placement methods. Purchase, use and replacement of construction equipment. Application of engineering economics to construction. Use of building codes. Prereq.: CCET 2604, MET 1515 both with a grade of "C" or better.

CCET 2620 Transportation Technology 3 s.h.
Transportation planning and highway system design. Familiarization with AASHTO design manuals; geometric design and signalization of highway segments; capacity analysis and route selection. Cost-benefit analysis for transportation projects. Four (4) hours lecture per week. Prereq. ‘C’ or better in CCET 2604.

CCET 3705 Computing for Technologists 3 s.h.
Development of computer techniques used in solutions to problems in all fields of engineering technology. Students write computer programs to solve problems with which they are familiar. Use of database management, spreadsheets. MAY be taken by non-CCET majors. Two hours lecture, three hours lab per week. Prereq.: MATH 1570 or MATH 1571 grade of "C" or better and junior standing or consent of instructor.
CCET 3706 Structural Design 4 s.h.
Structural design using AISC, ACI and similar codes. Selection of members and connections in accordance with manuals and code specifications. Design and AutoCAD projects required. Three hours lecture and three hours computational lab per week.
Prereq.: "C" or better in CCET 1503, CCET 1504, MET 1515, MATH 1513, MATH 1510 or MATH 1510C and MATH 1511 or MATH 1511C, CCET 2604.

CCET 3708 Building Information Modeling 3 s.h.
Introduction and applications of Autodesk Revit 3D CAD program. Use of Revit software to assemble a complete building information model of a building and use the model to coordinate systems between disciplines, to create material take-offs, construction documents, and presentation drawings. Two hours lecture, three hours lab per week.
Prereq.: "C" or better in CCET 3706.

CCET 3709 Structural Analysis 1 3 s.h.
Fundamental determination of member forces in trusses, beams, arches, frames and cables. Calculation of member stresses and deflections. Two hours lecture, three hours computational lab per week.
Prereq.: ENT1 1505, MATH 1513 or MATH 1510 or MATH 1510C and MATH 1511 or MATH 1511C and CCET 2604, all with a grade of "C" or better.

CCET 3711 Specifications and Estimating 3 s.h.
Fundamentals of writing and interpreting specifications for materials and construction methods. Estimating materials and labor costs for construction projects. Use of computer estimating packages. Two hours lecture and three hours computational laboratory.
Prereq.: ENT1 1505, MATH 1513 or MATH 1510 or MATH 1510C and MATH 1511 or MATH 1511C, CCET 2604, MET 1515 all with grade of "C" or better.

CCET 3714 Soil Mechanics 2 s.h.
A study of soil properties, classifications, strength and behavior. Theory of consolidation, shear strength and stability analysis. Two hours lecture per week.
Prereq.: "C" or better in the following courses CCET 2614L, CCET 3706, CCET 3709.

CCET 3714L Soil Mechanics Laboratory 1 s.h.
Practice in soil identification and determination of soil properties. Use and care of basic soil testing equipment and standard test procedures. Three laboratory hours per week.
Concurrent with: CCET 3714.

CCET 3719 Environmental Impact of Abandoned Mines 3 s.h.
Mining methods, types of mines, information retrieval, mine stabilization, and the effects of abandoned mines on environmental and human activities, especially deep coal mines in the Mahoning Valley and adjacent areas. Two hours lecture and three hours of lab per week. Prereq. GEOL 1505 or equivalent or permission of instructor.

CCET 3724 Hydraulics and Land Development 3 s.h.
Study of hydraulics and hydrologic principles and their applications to drainage requirements, storm-water management, detention/retention basin design, erosion and sedimentation control plans and land-use planning. Use of computer software for analysis and design. Two hours lecture, three hours of computational lab per week.
Prereq.: CCET 1503, CCET 1504, ENT1 1505, MATH 1513 or MATH 1510 or MATH 1510C and MATH 1511 or MATH 1511C, CCET 2604, MET 1515 all with a grade of "C" or better.

CCET 3735 Heavy Highway Technology 3 s.h.
Study of principles of heavy highway construction as it relates to the current highway system. The reading and comprehension of highway construction plans and specifications. Four (4) hours lecture per week.
Prereq.: "C" or better in CCET 2620.

CCET 3740 Construction Management 3 s.h.
Design and construction office planning and scheduling techniques. Construction reports, contracts, specifications and general conditions. Relationships among owner, architect/engineer, and constructor. Introduction to computer methods for program planning and updating. Financial, labor, and material resource allocation and tracking. Four (4) hours lecture per week.
Prereq.: "C" or better in CCET 3711.

CCET 4807 Project Planning & Scheduling 3 s.h.
Application of planning, scheduling, and control system techniques for an integrated project including theory, options, legal implications, and practices. Students plan and schedule projects using CPM computer software and set up control systems for the project. Three hours lecture, one hour laboratory per week.
Prereq.: "C" or better in CCET 3711.

CCET 4809 Structural Analysis 2 3 s.h.
Continuation of CCET 3709. Analysis techniques for common structures. Introduction to classical approaches to statically indeterminate structures and calculation of deflections. Use of standard computer programs such as StruCalc, SAP and SABLE. Three hours lecture, one hour computational lab per week.
Prereq.: "C" or better in both CCET 3709 and MATH 1570 or MATH 1571.

CCET 4810 Construction Surveying 3 s.h.
Theory and applications of advanced land surveying techniques for route surveying and geometric design; topographic site surveys and mapping; civil engineering, utilities, and construction surveys; global positioning systems; and quantities and final surveys. Two hours lecture and three hours field surveying laboratory.
Prereq.: "C" or better in CEEN 2610, CEEN 2610L.

CCET 4812 Concrete Design 3 s.h.
Behavior and design of concrete elements subject to flexure, shear, axial and combined effects. Emphasis on reinforced concrete design in accordance with the ACI Code including beams, T-beams, slabs, walls, and columns. An introduction to prestressed and precast concrete design. Three hours lecture, one hour design lab per week.
Prereq.: "C" or better in both CCET 3706 and CCET 3709.

CCET 4813 Steel Design 3 s.h.
Loading and behavior of steel structures and design of standard rolled shapes in accordance with current LRFD and ASD specifications. Design of welded and bolted connections and an introduction to design of cold-formed steel members. Three hours lecture, one hour design lab per week.
Prereq.: "C" or better in both CCET 3706 and CCET 3709.

CCET 4814 Foundation Design 3 s.h.
Application of soil mechanics to the design of foundations. Topics include spread footings, drilled piers, piles, retaining walls, sheet piles walls and underground structures. Three hours lecture per week.
Prereq.: "C" or better in CCET 3714 and CCET 3714L.

CCET 4815 Masonry Design 3 s.h.
Design of beams, columns, shear walls and bearing walls using clay and concrete masonry units. Application of allowable stress design (ASD) and strength design (SD) in accordance with the MSJC Building Code Requirements for Masonry Structures. Additional topics include prestressed and autoclaved aerated concrete (AAC) masonry. Three hours lecture, one hour lab per week.
Prereq.: "C" or better in both CCET 3706 and CCET 3709.

CCET 4816 Timber Design 3 s.h.
Design of beams, poles, piles, diaphragms, shear walls and fasteners using timber elements. Application of the National Design Specification for Wood Construction that incorporates a dual format using both allowable stress design (ASD) and load and resistance factor design (LRFD). Additional topics include glued-laminated members and design of mechanical connectors. Design, analysis, construction, and testing of scale models is required. Three hours lecture, one hour lab per week.
Prereq.: "C" or better in both CCET 3706 and CCET 3709.
CCET 4824 Environmental Technology 3 s.h.
Application of environmental principles to land planning and development. Wastewater treatment processes and system design. Application of water and wastewater management to specific sites. Permitting and endangerment assessment. Three hours lecture, one hour computational lab per week. Prereq.: "C" or better in CCET 3724 and junior standing.

CCET 4884 Civil/Structural Facilities Design 3 s.h.
Interdisciplinary capstone course. An overview of the requirements and design procedures for civil and structural systems. Includes the analysis and design for site development, utilities, foundation, wall systems, framing systems, floor system and the preparation of the plans, specifications and estimate package. Includes a major interdisciplinary group project. Four (4) hours lecture per week. Prereq. or. Prereq.: Senior standing in CCET or EET permission of instructor.
Coreq.: EET 4810.

CCET 4890 Special Topics in Civil and Construction Engineering Technology 1-4 s.h.
New developments in CCET. Subject matter, special prerequisites, and credit hours to be announced in advance of each offering. May be repeated with different subject matter to a maximum of 8 s.h.
Prereq.: Senior standing in CCET or consent of the instructor.

Electrical Engineering and Technology

EET 1501 Circuit Theory 1 3 s.h.
Theoretical analysis of DC electrical circuits including units conversions, current voltage, power, Ohms Law, Kirchhoffs Laws, network theorems, capacitance, magnetic circuits, inductance and transient analysis of RL and RC circuits.
Prereq.: C or better in either MATH 1513, or in either MATH 1510 or MATH 1510C and in either MATH 1511 or MATH 1511C.
Coreq.: EET 1501L.

EET 1501L Circuit Theory 1 Lab 1 s.h.
Use of electrical components to construct circuits and use of electrical instrumentation including meters and oscilloscopes to analyze DC resistive series/parallel networks and basic RC & RL transient circuits. Computer circuit analysis with PSPICE. Three hours per week.
Concurrent with: EET 1501.

EET 1502 Circuit Theory 2 3 s.h.
Study of AC sinusoidal waveforms, phasor representations, phasor algebra and phasor diagrams. Solution of steady state single phase series/parallel networks including network theorems, power and power factor, resonant circuits, filters, mutual inductance, transformers and balanced three-phase systems.
Prereq.: "C" or better in EET 1501 and EET 1501L; "C" or better in either MATH 1513, or in either MATH 1510 or MATH 1510C and in either MATH 1511 or MATH 1511C.
Coreq.: EET 1502L.

EET 1502L Circuit Theory 2 Lab 1 s.h.
Measure effective values of AC currents and voltages, observe waveforms with oscilloscopes, verify impedance concepts and phasor diagrams for AC series/parallel networks and resonant circuits. Computer circuit analysis with PSPICE. Three hours per week.
Concurrent with: EET 1502.

EET 2605 Electronics 1 3 s.h.
Physical basis of semiconductor materials, diodes, rectifier circuits, Zener diode regulators, clippers, clampsers, special purpose diodes. Bipolar junction transistors (BJT) characteristics, bias circuits, equivalent circuit models, amplifiers and field effect transistor (FET) characteristics. Coreq: EET 2605L. Prereq.: EET 1502 and EET 1502L; C or better in either MATH 1513, or in either MATH 1510 or MATH 1510C and in either MATH 1511 or MATH 1511C.

EET 2605L Electronics 1 Laboratory 1 s.h.
Use of meters, oscilloscope, transistor curve tracer for experiments on diode characteristics, rectifier circuits, clippers, clampsers, Zener regulators, BJT and FET characteristics, BJT bias circuits and amplifiers. Computer circuit analysis with PSPICE. Three hours per week. Concurrent with: EET 2605.

EET 2620 Digital Electronics 2 s.h.
An introductory study of number systems and conversions, codes, Boolean algebra, and logic gates. Includes Boolean function simplification, truth tables, Karnaugh maps, and combination circuits.
Prereq.: "C" or better in EET 1501 and EET 1501L, and ENTC 1505; "C" or better in either MATH 1513, or in either MATH 1510 or MATH 1510C and in either MATH 1511 or MATH 1511C.
Coreq.: EET 2620L.

EET 2620L Digital Electronics Lab 1 s.h.
Experiments utilizing digital integrated circuits to implement various logic functions discussed in EET 2620. Three hours per week. Concurrent with: EET 2620.

EET 2653 Fiber Optics 3 s.h.
Light propagation in fiber; connections, attenuation, and signal distortion; splicing and analysis of coupling losses; optical transmitters and receivers for analog and digital signals. Two hours lecture, three hours lab per week. Prereq.: "C" or better in EET 1502 and EET 1502L and EET 2605 and EET 2605L and MATH 1570.

EET 3700 Methods in Circuit Analysis 3 s.h.
Review of circuit analysis techniques using phasor algebra; mesh and nodal analysis, Thevenin and Norton equivalents; superposition theorem; three-phase circuits; circuit solutions using matrix methods; and Fourier analysis of periodic waveforms with applications to circuit analysis. Two hours lecture and three hours computational lab per week. Prereq. or. Prereq.: Grade of C or better in the following: EET 3706 and EET 3706L and EET 3710 and EET 3710L and EET 3735 and EET 3735L and (MATH 1570 or MATH 1571).
Coreq.: MATH 2670.

EET 3701 Transform Circuit Analysis 3 s.h.
Introduction to Laplace transforms and the use of Laplace transforms in circuit analysis, transfer functions, frequency response of networks, poles and zeros, stability, Bode plots. Two hours lecture and three hours of computational lab per week. Prereq.: MATH 2670 and EET 3700 with a grade of "C" or better.

EET 3706 Electronics 2 3 s.h.
Field effect transistor (FET) bias circuits and amplifiers, thyristor circuits, frequency effects (Bode plots), differential amplifiers, linear and non-linear op amp circuits, active filters, oscillators and regulated power supplies.
Prereq.: "C" or better in EET 1502 and EET 1502L and EET 2605 and EET 2605L and MATH 1570.
Concurrent with: EET 3706L.

EET 3706L Electronics 2 Laboratory 1 s.h.
Experiments involving field effect transistors (FETs), integrated circuits (ICs), operational amplifiers, frequency effects on gain, oscillator circuits and regulated power supplies. Computer circuit analysis with PSPICE. Three hours per week. Concurrent with: EET 3706.

EET 3710 Electrical Machines 3 s.h.
Construction, operating principles and characteristics, efficiency and control of DC motors, generators, and specialized machines. AC single and 3-phase transformers, alternators, induction and synchronous motor principles, characteristics, efficiency and control.
Prereq.: "C" or better in EET 1502 and EET 1502L and ENTC 1505 and MATH 1570.
Concurrent with: EET 3710L.
EET 3710L  Electrical Machines Lab  1 s.h.
Experiments with DC motors and generators and AC transformers, alternators, induction and synchronous motors to observe operation, efficiency, control and machine characteristics. Three hours per week.
Concurrent with: EET 3710.

EET 3712  Programmable Logic Controllers  3 s.h.
Development of ladder logic programming and application to programmable logic controllers (PLCs). Examination of input/output (I/O) device characteristics and interfacing including both digital and analog I/O. Installation, maintenance and safety practices for PLCs.
Prereq.: "C" or better in EET 1502 and EET 1502L and EET 2620 and EET 2620L and EET 3710 and EET 3710L and MATH 1570.

EET 3712L  PLC Laboratory  1 s.h.
Exercises in ladder logic programming for programmable logic controllers (PLCs) using concepts developed in EET 3712. Input/Output (I/O) concepts related to PLCs. Three hours per week.
Concurrent with: EET 3712.

EET 3715  Industrial Instrumentation and Control  3 s.h.
Introduction to industrial instrumentation and process control. Application of calculus, thermodynamics, and fluid flow to instrumentation and control systems. Characteristics of sensing devices including temperature, pressure, flow, level, position, analytical, vibration, etc. Analog electronic instrumentation and instrument calibration. Concepts of closed loop control, process dynamics and loop tuning, feedback, cascade control in industrial process systems. 2 hours lecture, 3 hours lab per week.
Prereq.: EET 3710 and EET 3710L and EET 2605 and EET 2605L and EET 2620 and EET 2620L and CHEM 1515 and CHEM 1515L and PHYS 1501 and (MATH 1570 or MATH 1571) with letter grade of C or better.

EET 3725  Electromechanical Systems  3 s.h.
AC/DC circuit analysis techniques including network theorems, MultiSim computer circuit analysis with applications to AC/DC machinery, electronics, digital circuits and control systems. Three hours lecture per week.
Prereq.: C or better in MATH 1570 and ENTC 1505.
Concurrent with: EET 3725L.

EET 3725L  Electromechanical Systems Lab  1 s.h.
Lab experiences to accompany EET 3725 Electromechanical Systems. Topics include lab safety, resistor color code, DC and AC circuits, oscilloscope and function generator, diode rectifiers, transistor switching circuits and amplifiers, three phase power measurements, transformer testing, DC and AC motor characteristics.
Prereq.: C or better in the following: MATH 1570, ENTC 1505.
Concurrent with: EET 3725.

EET 3730  Logic Systems Design  3 s.h.
The characteristics and applications of integrated circuit logic families and various memory devices. Emphasis on the design of digital systems with SSI, MSI, and LSI as system components.
Prereq.: "C" or better in EET 2620 and EET 2620L and EET 2605 and EET 2605L and EET 1502 and EET 1502L and MATH 1570.
Concurrent with: EET 3730L.

EET 3730L  Logic Systems Design Lab  0 s.h.
Laboratory exercises dealing with applications of concepts developed in EET 3730. Three hours per week.
Concurrent with: EET 3730.

EET 3735  Microprocessor Architecture and Programming  3 s.h.
An introduction to microprocessor architecture, memory organization, and input/output addressing. Emphasis on machine/assembly language programming to teach concepts of buses, machine cycles, and internal data flow. Two hours lecture and three hours of lab per week.
Prereq.: "C" or better in CSIS 1590, or in EET 1501 and EET 1501L and EET 2620 and EET 2620L; "C" or better in either MATH 1513, or in either MATH 1510 or MATH 1510C and in either MATH 1511 or MATH 1511C.

EET 3735L  Microprocessor Architecture and Programming Laboratory  0 s.h.
Microprocessor Architecture and Programming Laboratory.

EET 3745  Microprocessor Systems 2  3 s.h.
Continuation of EET 2645 with emphasis on advanced programming techniques, memory mapping, I/O ports, and basic I/O interfacing.
Prereq.: "C" or better in EET 3735 and EET 3735L and EET 1502 and EET 1502L and MATH 1570.

EET 3745L  Microprocessor Systems 2 Lab  0 s.h.
Laboratory exercises utilizing a microcomputer to provide practical applications of concepts developed in EET 3745. Three hours per week.
Concurrent with: EET 3745.

EET 3760  Variable Speed Drives  3 s.h.
Introduction to electronic speed control of direct and alternating current motors. Power conversion and waveform modulation techniques, drive sizing, harmonics, and motor performance.
Prereq.: "C" or better in EET 3710 and EET 3710L and EET 3706 and EET 3706L, EET 3700, and MATH 2670.
Concurrent with: EET 3760L.

EET 3760L  Variable Speed Drives Lab  0 s.h.
Exercises in variable speed drive applications, demonstrating the concepts developed in EET 3760.
Concurrent with: EET 3760.

EET 3780  Communication Systems  3 s.h.
Audio signals, noise, untuned and RF amplifiers, amplitude, frequency, pulse modulation, transmission lines, antennas, and multiplexing of communication channels.
Prereq.: "C" or better in the following: EET 1502, EET 1502L, EET 3760, EET 3706L, EET 3700, and MATH 2670.
Concurrent with: EET 3780L.

EET 3780L  Communication Systems Lab  0 s.h.
Laboratory exercises dealing with application of concepts developed in EET 3780. Three hours per week.
Concurrent with: EET 3780.

EET 4810  Electrical System Design  3 s.h.
The design and layout of electrical systems for power, light, heat, signals, and communications in commercial, industrial, and residential buildings. Two hours lecture, three hours of lab per week.
Prereq.: EET 3710 and EET 3710L or EET 3725 and EET 3725L, with grade of C or better.

EET 4812  Automation Systems Integration  3 s.h.
Network technologies that support system integration of process/ manufacturing automation, building automation (smart buildings), environment management, as well as energy management and electricity systems automation (smart grid systems). Hardware and software, including NetDDE, OPC, and SCADA Systems comprising the infrastructure of Industrial Internet of Things (IIoT) ad Industry 4.0. IIoT infrastructure components such as Artificial Intelligence based control systems, wireless technology in automation systems, safety systems, and organizational approach to automation. Two hours lecture and three hours lab per week.
Prereq.: EET 3701 and EET 3760 and EET 3760L and EET 3745 and EET 3745L and CSIS 2610 and MATH 2670 and completion of one upper division technical elective with letter grade C or better.

EET 4815  Power System Studies  3 s.h.
Introduction to electrical power system studies including system modelling, load flow and voltage drop, short circuit, protective device coordination, motor transient starting, power quality, and arc flash calculations. Two hours lecture and three hours computational lab per week.
Prereq.: EET 3710 and EET 3710L and EET 3700 and MATH 2670 all with grades of "C" or better.
**EET 4820**  Power System Protection and Control  3 s.h.
An introduction to electrical power system protection and control utilizing intelligent smart grid technologies. Topics include power system analysis, real time data acquisition and control, synchrophasor measurements, communications, and application of microprocessor-based protective relaying. Two hours lecture per week.
**Prereq.:** "C" or better in EET 3710 and EET 3710L and EET 3712 and EET 3712L, EET 3700 and MATH 2670.
**Concurrent with:** EET 4820L.

**EET 4820L**  Power System Protection and Control Lab  0 s.h.
Establishing communications, programming, and testing of various microprocessor based power system protective relays, including time-overcurrent, bus, differential, motor, distributed generation, and transformer relays. Three hours lab per week.
**Prereq.:** "C" or better in EET 3710 and EET 3710L and EET 3712 and EET 3712L.
**Concurrent with:** EET 4820.

**EET 4845**  Microprocessor Systems 3  3 s.h.
Continuation of EET 3745 with emphasis on real data acquisition, A/D and D/A conversions, and industrial applications.
**Prereq.:** "C" or better in EET 3730 and EET 3730L and EET 3745 and EET 3745L and MATH 2670.
**Concurrent with:** EET 4845L.

**EET 4845L**  Microprocessor Systems 3 Lab  0 s.h.
Laboratory exercises utilizing a microcomputer to provide practical applications of concepts developed in EET 4845. Three hours per week.
**Concurrent with:** EET 4845.

**EET 4850**  Integrated Circuit Applications 3  3 s.h.
Introduction to integrated circuits technology and typical application.
**Prereq.:** "C" or better in EET 3706 and EET 3706L and EET 1502 and EET 1502L and MATH 2670.
**Concurrent with:** EET 4850L.

**EET 4850L**  Integrated Circuit Applications Lab  0 s.h.
Laboratory exercises dealing with the application of concepts developed in EET 4850. Three hours per week.
**Concurrent with:** EET 4850.

**EET 4870**  Process Control Technology  4 s.h.
Interdisciplinary capstone course. Analysis and design of control systems for industrial processes, utility automation, and electromechanical systems. Includes preparation of schematic, control, and wiring diagrams; specifications, estimates, project schedule, and presentation of results. Three hours lecture, three hours lab per week.
**Prereq.:** Grades of C or better in EET 3712 and EET 3712L and EET 3760 and EET 3760L and EET 3701 and EET 3780 and EET 3780L and EET 3745 and EET 3745L and MATH 2670 and EET 4810 and two EET electives and Senior standing in EET and permission of EET program coordinator.

**EET 4880**  Electrical and Mechanical Facilities Design 3  3 s.h.
Multidisciplinary study of building systems; HVAC, plumbing, electrical power, lighting, and communication systems. Computational labs and group projects for each topic. Two hours lecture and three hours computational lab.
**Prereq.:** Senior standing and permission of the CCET or EET student's program advisor.
**Concurrent: CCET 4884.**

**EET 4890**  Special Topics in EET  1-4 s.h.
Special topics/new developments in electrical engineering technology. Subject matter, special prerequisites, and credit hours to be announced in advance of each offering. May be repeated with different subject matter to a maximum of 8 s.h.
**Prereq.:** Senior standing in EET or consent of the instructor.

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**Engineering Technology**

**ENTC 1500**  Technical Skills Development  4 s.h.
A course designed to develop the technical, analytical and problem solving skills of students planning to enter an engineering or technical course of study. Three (3) hours of lecture and three (3) hours lab per week. Grading is A, B, C, NC.
**Prereq. or concurrent:** MATH 1501.

**ENTC 1505**  Engineering Technology Concepts  4 s.h.
The role of the technician, technologist, engineer and scientist in the technology team; a study of basic mathematical, scientific, and communicative techniques as applied to the work of engineering technologists; ethical, global, and societal issues facing the engineering technology professional. Three hours lecture, three hours lab per week. Grading is A, B, C, NC. Corequisite MATH 1513 or MATH 1511.
**Prereq.:** grade of "C" or better in MATH 1510.

**ENTC 3799**  Professional Practice in Engineering Technology  1 s.h.
This course provides students with cooperative education experiences in various engineering technology disciplines. To receive credit for the course, the student is expected to work at the assignment a minimum of 400 hours, submit a report of activities, and obtain approval of the department Professional Practice Committee. Course may be repeated up to a maximum of 3 s.h. toward the BSAS. Students are considered full-time even though only 1 s.h. is given for each course. Grading: PR, CR, NC.
**Prereq.:** Consent of department chairperson.

**ENTC 4895**  Independent Engineering Technology Project  1-4 s.h.
Individual study under direction of a faculty member. Written and oral report required. May be repeated for a maximum of 4 s.h.
**Prereq.:** Junior standing, consent of instructor, and prior approval of the project by the IETP committee of engineering technology faculty.

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**Electrical Utility Technology**

**EUT 1500**  Electrical Fundamentals  3 s.h.
Introduction to direct and alternating current circuits. Study of resistance, capacitance, inductance, Ohm's and Kirchhoff's Laws applied to circuits. Three hours lecture per week.
**Prereq.:** ENTC 1500 and MATH 1501 or at least level 3 on the Mathematics Placement Test.
**Concurrent with:** EUT 1500L.

**EUT 1500L**  Electrical Fundamentals Lab  1 s.h.
Lab component of EUT 1500. Provides hands-on instruction in the use of electrical test equipment including digital multimeters, power supplies, oscilloscopes, etc. Three hours per week.
**Prereq.:** ENTC 1500 and MATH 1501 or at least level 3 on the Mathematics Placement Test.
**Concurrent with:** EUT 1500.

**EUT 1502**  Power Plant Fundamentals  4 s.h.
Introduction to power plant systems including boiler, turbine, generator, condenser, pumps, and auxiliary equipment. Emphasizes use of schematics and diagrams in discussing plant systems. Includes plant safety training. Four hours lecture per week.
**Prereq.:** MATH 1501 or Level 3 on MPT and eligible to enroll in ENGL 1550.
**Prereq. or concurrent:** ENTC 1500.
**Concurrent: EUT 1502L.**

**EUT 1502L**  Power Plant Fundamentals Lab  1 s.h.
Lab component to accompany EUT 1502. Provides introduction to power generating plant systems and equipment including boiler, turbine, generator, condenser, pumps, and auxiliary equipment. Emphasizes the use of schematics and diagrams in discussing plant systems. Three hours laboratory per week.
**Concurrent with:** EUT 1502.
EUT 1503  Power Plant Mechanical Equipment  3 s.h.
Introduction to various mechanical equipment found in power plants including pumps, fans, blowers, valves, heat exchangers and power transmission equipment. Mechanical concepts of force and torque. Basic types of bearings, seals, and lubrication. Mechanical assembly drawings and diagrams. Three hours lecture per week. 
Prereq.: ENTC 1500 and EUT 1502, EUT 1502L, and MATH 1501. 
Concurrent with: EUT 1503L.

EUT 1503L  Power Plant Mechanical Equipment Lab  1 s.h.
Lab component to accompany EUT 1503. Provides hands-on activities related to pumps, fans, blowers, valves, heat exchangers, bearings, seals, lubrication, and power transmission equipment. Three hours lab per week. 
Prereq.: ENTC 1500, EUT 1502, EUT 1502L, and MATH 1501. 
Concurrent with: EUT 1503.

EUT 1504  Maintenance Fundamentals 1  4 s.h.
Introduction to blueprint reading and technical diagrams, use of hand tools and power tools, safety and health, development of troubleshooting skills, chemical hazards, and material safety data sheets. Three hours lecture, and three hours lab per week. 
Prereq. or concurrent: ENTC 1500.

EUT 1505  Maintenance Fundamentals 2  4 s.h.
Introduction to piping systems, basic hydraulics and pneumatics, hydraulic and pneumatic troubleshooting, rigging and equipment installation, welding principals, oxyacetylene cutting and welding. Three hours lecture, three hours lab per week. 
Prereq.: EUT 1502 and EUT 1504, concurrent or prerequisite EUT 1503.

EUT 2600  Electric Utility Distribution Systems  4 s.h.
Applications of transformers, switchinggear, regulators, overhead conductors and underground cable. Power factor correction, voltage regulation, coordination and overcurrent protection of distribution circuits. 
Prereq.: EUT 1500.

EUT 2601  Electrical Codes and Standards  4 s.h.
National Electrical Code and National Electrical Safety Code as applied to overhead and underground utility distribution systems. Pole guy-ing, overhead conductor sag and tension, cable pulling, and clearances. Four hours lecture per week. 
Prereq.: EUT 2600.

EUT 2604  Power Plant Electrical Equipment  3 s.h.
Study of three-phase power systems including motors, generators, transformers, and switchgear. NEC and NESC Code requirements, automatic and manual motor controls, variable speed drives, circuit protection. Three hours lecture per week. 
Prereq.: EUT 1500 and EUT 1500L. 
Concurrent with: EUT 2604L.

EUT 2604L  Power Plant Electrical Equipment Lab  1 s.h.
Lab component to accompany EUT 2604. Provides hands-on activities related to three-phase power systems, motors, generators, transformers, and switchgear. Three hours lab per week. 
Prereq.: EUT 1500 and EUT 1500L. 
Concurrent with: EUT 2604.

EUT 2605  Intermediate Power Plant Systems  3 s.h.
Continuation of EUT 1502. Study of power plant cycles, thermodynamic properties of water and steam, and use of steam tables. Includes thermodynamic analysis of boiler system, feedwater, superheat, and reheate systems, heat transfer in pre-heaters, turbine, condenser, and pumps. Three hours lecture per week. 
Prereq.: EUT 1503, and EUT 1503L. 
Concurrent with: EUT 2605L.

EUT 2605L  Intermediate Power Plant Systems Lab  1 s.h.
Lab component to accompany EUT 2605. Provides hands-on and computational methods to dynamic analysis of boiler system, feedwater, superheat, and reheate systems, heat transfer in pre-heaters, turbine, condenser, and pumps. Three hours per week. 
Prereq.: EUT 1503, and EUT 1503L. 
Concurrent with: EUT 2605.

EUT 2606  Power Plant Operator Practice  3 s.h.
Discusses the operation of large utility power plants including start-up and shut-down of all major systems, disturbance response, and safe operation of plant systems. Three hours lecture per week. 
Prereq.: EUT 1503 and EUT 1503L. 
Concurrent and EUT 2605/EUT 2605L.

EUT 2607  Power Plant Instrumentation and Control  3 s.h.
Introduces basic principles of process instrumentation and control systems. Measurement parameters such as flow, pressure, level, temperature, and pH. Includes coverage of programmable logic controllers, and distributed control systems. Three hours lecture per week. 
Prereq.: EUT 2604, EUT 2604L and EUT 2605, EUT 2605L. 
Concurrent with: EUT 2607.

EUT 2607L  Power Plant Instrumentation & Control Lab  1 s.h.
Lab component to accompany EUT 2607. Provides hands-on activities related to process instrumentation and control systems. Three hours per week. 
Prereq.: EUT 2604L, and EUT 2605L.

EUT 2608  Advanced Power Plant Systems  3 s.h.
Continuation of EUT 2605. Examines on-line boiler control concepts, including combustion, feedwater, header pressure, oxygen content, power demand, and other processes as applied to utility boilers and process heat supply boilers. Also examines pollution control systems, gas turbines and diesel generators. Three hours lecture per week. 
Prereq.: EUT 2605, EUT 2605L. 
Concurrent with: EUT 2607, EUT 2607L and EUT 2608L.

EUT 2608L  Advanced Power Plant Systems Lab  1 s.h.
Lab component to accompany EUT 2608. Provides hands-on activities related to on-line boiler control concepts, pollution control systems, gas turbines and diesel generators. Three hours per week. 
Prereq.: EUT 2605, EUT 2605L. 
Concurrent with: EUT 2607, EUT 2607L and EUT 2608.

Mechanical Engineering Technology

MET 1515  Mechanics 1  3 s.h.
Study of forces as vector quantities; resultants of force systems; principles of mechanical equilibrium; application of principles to problems, devices and structures commonly encountered in industry. Three hours lecture per week. 
Prereq.: "C" or better in ENTC 1505 and MATH 1513 or MATH 1510 and MATH 1511 or MATH 1510C and MATH 1511C.

MET 2606  Solid Modeling  4 s.h.
Study of parametric solid modeling and other 3D techniques using Solid Works and Inventor software, including work with geometric dimensioning and tolerancing. Three hours lecture, three hours lab per week. 
Prereq.: C or better in CCET 1503.

MET 2616  Mechanics 2  3 s.h.
Continuation of MET 1515 with further application of statics, introduction to dynamics of solids, study of various types of motion, Newton's second law, work and energy, impulse and momentum. Three hours lecture per week. 
Prereq.: MET 1515 "C" or better.

MET 2630  Manufacturing Techniques  3 s.h.
The study of materials and processes used in manufacturing, including casting, heat treatment, hot and cold working, plastics processing and machining. Geometric Dimensioning and Tolerancing.  
Prereq.: "C" or better in ENTC 1505 and CCET 2604.
MET 2630L Manufacturing Techniques Laboratory 1 s.h.
Practice and procedures of machine tool operation including lathes, drill presses, shapers, and milling machines. Two hours lab per week. "C" or better in MET 2630 or concurrent with MET 2630.

MET 3705 Thermodynamics 4 s.h.
Properties of ideal and real gases, first and second laws of thermodynamics, application to thermodynamic cycles involving power plants and cyclic machinery.
Prereq.: "C" or better in CHEM 1515 or CHEM 1505, "C" or better in EET 3725.

MET 3706 Machine Design 1 4 s.h.
Principles of stresses and deflections, shear and moment diagrams, combined stresses, fatigue, measurement of strain, and theories of failure. Application of these principles to design of machine components. Includes a capstone experience for MET AAS degrees. 4 s.h.
Prereq.: "C" or better in CCET 2604, "C" or better in CCET 1503.

MET 3707 Machine Design 2 3 s.h.
Continuation of MET 3706, progressing to the design of machine elements such as gears, belts, clutches, chains, bearings, welded and bolted joints. Two hours lecture, three hours lab per week.
Prereq.: "C" or better in MET 3706.

MET 3710 Tool Design 3 s.h.
Design and selection of cutting tools, fixtures, bending and forming dies, inspection and gauging instruments, and material feed mechanisms. Two hours lecture, three hours lab per week.
Prereq.: "C" or better in MET 3706.

MET 3711 Heat and Power Cycles 4 s.h.
A continuation of MET 3705, including the study of heat transfer, the Rankine cycle, the Otto cycle, the Diesel cycle, and the performance of pumps and heat exchangers.
Prereq.: "C" or better in MET 3714, "C" or better in MET 3705.

MET 3714 Fluid Mechanics 4 s.h.
Principles of fluid statics and fluid dynamics and their application to incompressible flow in pipes and channels; Bernoulli’s equation, laminar and turbulent flow; energy and momentum in fluid flow.
Prereq.: "C" or better in MET 1515.

MET 3714L Fluid Mechanics Laboratory 1 s.h.
Experiments and applications of concepts covered in MET 3714. Three hours lab per week. Prereq.: C or better in MET 3714 or concurrent with MET 3714.

MET 3720 Mechanisms 3 s.h.
Graphical and analytical solution of problems involving displacement, velocity, and acceleration in machine mechanisms. Design of linkages with drafting software to provide required motions of machine members. Two hours lecture, three hours lab per week.
Prereq.: C or better in MET 2616, "C" or better in MATH 1570 or "C" or better in MATH 1571.

MET 3730 Energy and Financial Modeling 4 s.h.
The analysis and evaluation of financial factors that affect alternative energy systems explored in several common systems, such as solar, fuel cells, biodiesel, and wind, along with existing fuels such as coal, oil, natural gas, and nuclear.
Prereq.: MET 3705.

MET 4810 Manufacturing Systems Analysis 3 s.h.
Study of manufacturing systems including manufacturing process design, analysis, selection and sequencing; value analysis, machine tool cost and functions; computer and statistical simulation of production systems. Three hours lecture per week.
Prereq.: "C" or better in MET 3707.

MET 4812 Numerical Control 3 s.h.
A study of the programming of numerically-controlled machine tools. Students program NC machines using manual and computer-assisted techniques.
Prereq.: C or better in DDT 2606, and C or better in MET 3707. Concurrent: MET 4812L.

MET 4812L Numerical Control Lab 1 s.h.
A study of the programming of numerically-controlled machine tools. Students program NC machines using manual and computer-assisted techniques. Three hours lab per week. Coreq. or.
Prereq.: MET 4812.

MET 4820 Machine Systems 3 s.h.
Interdisciplinary capstone course. Analysis and design of complex machine systems incorporating hydraulic and pneumatic subsystems and electrical controls, including PLCs. Comprehensive design projects. Three hours lecture per week.
Prereq.: Senior standing in MET and permission of instructor.

MET 4850 Air Conditioning Principles and Practice 3 s.h.
The practical techniques used in the design of heating, ventilating, and air conditioning systems, including load calculations, unit selection, and duct system layout. The laboratory work includes the use of design charts and manufacturer’s catalogs in a project. Two hours lecture, two hours lab per week.
Prereq.: MET 3711.

MET 4860 Robotics Technology 2 s.h.
An application-oriented course on the technology and use of industrial robots, including classification, tooling, sensors, workcell design, safety, and programming.
Prereq.: "C" or better in MET 3714, Concurrent with: MET 4860L.

MET 4860L Robotics Technology Laboratory 1 s.h.
Practice in the programming and application of industrial robots and associated equipment. Construction of simulated robotic workcells using actual industrial robots, programmable controllers, sensors, and grippers. Two hours lab per week.
Prereq.: MET 3714 "C" or better. Concurrent with: MET 4860.

MET 4870 Applied Finite Element Method 3 s.h.
Introduction of the finite element method with an emphasis on modeling and interpretation of results. Linear static problems are solved using commercial finite element analysis (FEA) software, where the results are verified using theoretical calculations. Topics include trusses, frames, plane stress/strain, and 3-D structures. Three hours lecture.
Prereq.: "C" or better in MET 3707 or CCET 3709.

MET 4890 Special Topics in Mechanical Engineering Technology 1-4 s.h.
New developments in Mechanical Engineering Technology. Subject matter, special prerequisites, and credit hours to be announced in advance of each offering. May be repeated with different subject matter to a maximum of 8 s.h.
Prereq.: Senior standing in MET or consent of the instructor.

Associate of Applied Science in Civil and Construction Engineering Technology

The associate degree program prepares technicians to support civil engineers in structural design, public works, construction, transportation, and environmental engineering. Graduates are hired by consulting engineers, architects, contractors, and government agencies.

Students in the Civil and Construction Engineering Technology (CCET) program may choose to complete two years of study and earn an Associate of Applied Science (AAS) degree. The AAS degree provides early access to employment in engineering support positions. Upon completion of the AAS degree, the student may continue on for the Bachelor of Science in Applied Science (BSAS) degree. This program provides additional coursework, continuing the student’s growth to that of an engineering technologist or designer. Exceptional students may be eligible for enrollment in a Master of Engineering or Master of Business Administration program.
Program Educational Objectives
Educational objectives for the civil and construction engineering technology programs have been developed by faculty and the program industrial advisory committee to support the university, college, and School of Engineering Technology missions. Graduates of the CCET associate degree program are prepared to support civil engineers in:

• structural design
• public works
• construction
• inspection
• transportation
• environmental engineering

Accreditation and Registration
The civil and construction engineering technology associate is accredited by the ETAC Accreditation Commission of ABET, http://www.abet.org.

Date of last campus visit: October, 2017
Accredited through: 2024
Next campus visit: 2023
Link to accreditation body: ABET (http://www.abet.org/)

COURSE  TITLE S.H.
FIRST YEAR REQUIREMENT -STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Courses:
MATH 1513 Algebra and Transcendental Function 5
or ENGL 1549 Writing 1 with Support
ENGL 1550 Writing 1 3
CMST 1545 Communication Foundations 3
Social Studies GER 3
PHIL 2625 Introduction to Professional Ethics 3
or PHIL 2626 Engineering Ethics
PHYS 1501 Fundamentals of Physics 1 3

Courses in Major:
MATH 1570 Applied Calculus 1 4
ENTC 1505 Engineering Technology Concepts 4
CCET 1503 CAD Technology 2
CCET 1504 Drafting and Plan Reading 2
MET 1515 Mechanics 1 3
CCET 2604 Properties and Strength of Materials 3
CCET 2614L Materials Laboratory 1 2
CEEN 2610 Surveying 3
CEEN 2610L Surveying Laboratory 1
MET 2616 Mechanics 2 3
CCET 3709 Structural Analysis 1 3
CCET 2620 Transportation Technology 3
CCET 2607 Civil 3D 3
CCET 3724 Hydraulics and Land Development 3
CCET 3706 Structural Design 4
CCET 3711 Specifications and Estimating 3

Total Major Credit Hours: 46 s.h.
Total Semester Credit Hours: 71-73

Year 1
Fall S.H.
YSU 1500 Success Seminar 1
ENTC 1505 Engineering Technology Concepts 4
CCET 1503 CAD Technology 2
CCET 1504 Drafting and Plan Reading 2
MATH 1513 Algebra and Transcendental Function 5
ENGL 1550 Writing 1 3

Semester Hours 17
Spring
MET 1515 Mechanics 1 3
CCET 2604 Properties and Strength of Materials 3
CCET 2614L Materials Laboratory 1 2
ENGL 1551 Writing 2 3
PHYS 1501 Fundamentals of Physics 1 4
Social Science GER 3

Semester Hours 18

Year 2
Fall
CEEN 2610 Surveying 4
& 2610L and Surveying Laboratory
MET 2616 Mechanics 2 3
CCET 3709 Structural Analysis 1 3
CCET 2620 Transportation Technology 3
PHIL 2626 Engineering Ethics (Arts & Humanities GER) 3
CCET 2607 Civil 3D 3

Semester Hours 19
Spring
MATH 1570 Applied Calculus 1 4
CCET 3724 Hydraulics and Land Development 3
CCET 3706 Structural Design 4
CCET 3711 Specifications and Estimating 3
CMST 1545 Communication Foundations 3

Semester Hours 17

Total Semester Hours 71

Program outcomes
ASSOCIATE OF APPLIED SCIENCE in civil and construction engineering technology
Graduates of the Associate Degree in Civil and Construction Engineering Technology will possess the following competencies upon graduation:

• Learning Outcome 1: use graphic techniques to produce engineering documents and use modern instruments, methods, and techniques to implement construction contracts, documents, and codes
• Learning Outcome 2: conduct standardized field/laboratory testing on civil engineering materials and evaluate materials/methods for construction projects
• Learning Outcome 3: utilize modern surveying methods for land measurement and/or construction layout
• Learning Outcome 4: determine forces and stresses in elementary structural systems
• Learning Outcome 5: estimate material quantities and costs for technical projects
• Learning Outcome 6: employ productivity software to solve technical problems

**Associate of Applied Science in Electrical Engineering Technology**

Graduates of the two-year Electrical Engineering Technology program generally function as assistants to electrical engineers in the design, analysis, and laboratory testing of electrical and electronic systems and of rotating machinery. Most graduates are employed by electrical and electronic equipment manufacturers, utility companies, the aerospace industry, and manufacturing companies in general. Students in the Electrical Engineering Technology (EET) program may choose to complete two years of study and earn an Associate in Applied Science (AAS) degree. The AAS provides early access to employment in engineering support positions. Upon completion of the AAS degree, the student may continue on for the Bachelor of Science in Applied Science (BSAS) degree. This program provides additional coursework, continuing the student’s growth to that of an engineer or designer. Exceptional students may be eligible for enrollment in a Master of Engineering or Master of Business Administration program.

**Program Educational Objectives**

Educational objectives for the electrical engineering technology programs have been developed by faculty and the program industrial advisory committee to support the university, college, and School of Engineering Technology missions. Graduates of the EET associate degree program generally function as assistants to electrical engineers in the design, analysis, and laboratory testing of electrical and electronic systems and of rotating machinery. Bachelor degree graduates are prepared to design and test electrical systems and laboratory testing of electrical and electronic systems and of rotating machinery. Most graduates are employed by electrical and electronic manufacturers, utility companies, the aerospace industry, and machinery. Students in the Electrical Engineering Technology (EET) program may choose to complete two years of study and earn an Associate in Applied Science (AAS) degree. The AAS provides early access to employment in engineering support positions. Upon completion of the AAS degree, the student may continue on for the Bachelor of Science in Applied Science (BSAS) degree. This program provides additional coursework, continuing the student’s growth to that of an engineer or designer. Exceptional students may be eligible for enrollment in a Master of Engineering or Master of Business Administration program.

During their first few years after earning the electrical engineering technology degree at YSU, graduates will have demonstrated the ability to:

- Secure employment in a technical career related to their Electrical Engineering Technology degree.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition consistent with their educational achievements.

**Accreditation and Registration**

The electrical engineering technology associate program is accredited by the ETAC Accreditation Commission of ABET, http://www.abet.org.

- Date of last campus visit: October, 2017
- Accredited through: 2024
- Next campus visit: 2023
- Link to accrediting body: ABET (http://www.abet.org/)

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<tr>
<td>Fall</td>
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<tr>
<td>YSU 1500</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
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<tr>
<td>MATH 1513</td>
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<td>MATH 1570</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<tr>
<td>EET 1502</td>
<td>Circuit Theory 2</td>
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<tr>
<td>EET 1502L</td>
<td>Circuit Theory 2 Lab</td>
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<td>MATH 1570</td>
<td>Applied Calculus 1</td>
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<td>ENGL 1550</td>
<td>Writing 1</td>
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<tr>
<td>PHIL 2626</td>
<td>Engineering Ethics (Arts and Humanities GER)</td>
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</table>

| Year 2   |                                             |      |
| Fall     |                                             |      |
| EET 2620 | Digital Electronics                        | 2    |
| EET 2620L | Digital Electronics Lab                    | 1    |
| EET 2605 | Electronics 1                              | 3    |
| EET 2605L | Electronics 1 Laboratory                   | 3    |
| ENGL 1551 | Writing 2                                 | 3    |
| ECON 2610 | Principles 1: Microeconomics               | 3    |
| CHEM 1515 | General Chemistry 1                        | 4    |

| Total General Education Credit Hours: | 32 s.h. |
|----------------|         |
| Courses in Major: |        |
| ENTC 1505 | Engineering Technology Concepts          | 4    |
| CCET 1503 | CAD Technology                            | 2    |
| CCET 1504 | Drafting and Plan Reading                 | 2    |
| EET 1501 | Circuit Theory 1                          | 3    |
| EET 1501L | Circuit Theory 1 Lab                      | 1    |
| EET 1502 | Circuit Theory 2                          | 3    |
| EET 1502L | Circuit Theory 2 Lab                      | 1    |
| EET 2605 | Electronics 1                             | 3    |
| EET 2605L | Electronics 1 Laboratory                  | 1    |
| EET 2620 | Digital Electronics                       | 2    |
| EET 2620L | Digital Electronics Lab                   | 1    |
| EET 3706 | Electronics 2                             | 3    |
| EET 3706L | Electronics 2 Laboratory                  | 1    |
| EET 3710 | Electrical Machines                        | 3    |
| EET 3710L | Electrical Machines Lab                   | 1    |
| EET 3735 & 3735L | Microprocessor Architecture and Programming Laboratory | 3 |

| Total Major Credit Hours: | 36 s.h. |
|----------------|        |
| First Year Requirement - Student Success |      |
| YSU 1500 | Success Seminar                           | 1    |
| or SS 1500 | Strong Start Success Seminar             | 2    |
| or HONR 1500 | Intro to Honors                          | 1    |

| LOAD | 5 |

**Learning Outcome 6**: employ productivity software to solve technical problems.
Graduates may find employment as engineering technicians in a wide variety of industries. They assist engineers in the design, drafting, testing, and support of mechanical products or of the industrial equipment and processes used to manufacture consumer products.

Program Educational Objectives

Educational objectives for the MET programs have been developed by faculty and the program industrial advisory committee to support the university, the college, and the School of Engineering Technology missions. Graduates of the MET associate degree program function as assistants in the design, drafting, and testing of mechanical products, equipment and processes. Bachelor’s degree graduates assume greater responsibility in the design and testing of mechanical products, processes, and equipment.

During their first few years after completion of the mechanical engineering technology program at YSU, graduates will have demonstrated the ability to:

- Work competently in technical and professional careers related to the field of mechanical engineering technology.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition and/or compensation consistent with their educational achievements.

Accreditation and Registration

The mechanical engineering technology associate program is accredited by the ETAC Accreditation Commission of ABET, http://www.abet.org.

Date of last campus visit: October, 2017
Accredited through: 2024
Next campus visit: 2023

Link to accreditation body: ABET (http://www.abet.org/)

COURSE TITLE S.H.

FIRST YEAR REQUIREMENT - STUDENT SUCCESS
YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Courses:

ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
MATH 1513 Algebra and Transcendental Function 5
CHEM 1515 General Chemistry 1
& 1515L and General Chemistry 1 Laboratory 4
PHYS 1501 Fundamentals of Physics 1 4
Select 2 courses from either AH or SS domain 6

Total General Education Credit Hours: 27-28 s.h.

Courses in Major:

MATH 1570 Applied Calculus 1 4
ENTC 1505 Engineering Technology Concepts 4
CCET 1503 CAD Technology 2
CCET 1504 Drafting and Plan Reading 2
MET 1515 Mechanics 1 3
CCET 2604 Properties and Strength of Materials 3
CCET 2614L Materials Laboratory 1 2
MET 2606 Solid Modeling 4
MET 2616 Mechanics 2 3
MET 3714 Fluid Mechanics 4
MET 3714L Fluid Mechanics Laboratory 1
### Year 1

#### Fall
- YSU 1500 Success Seminar 1 S.H.
- ENTC 1505 Engineering Technology Concepts 4
- MATH 1513 Algebra and Transcendental Function 5
- CCET 1503 CAD Technology 2
- CCET 1504 Drafting and Plan Reading 2
- ENGL 1550 Writing 1 3

#### Semester Hours
17

#### Spring
- MET 1515 Mechanics 1 3
- CCET 2604 Properties and Strength of Materials 3
- CCET 2614L Materials Laboratory 1 2
- MATH 1570 Applied Calculus 1 4
- MET 2606 Solid Modeling 4

#### Semester Hours
16

#### Total Semester Hours
66

### Year 2

#### Fall
- MET 2616 Mechanics 2 3
- MET 3714 Fluid Mechanics and Fluid Mechanics Laboratory 5
- PHYS 1501 Fundamentals of Physics 1 4
- Arts & Humanities GER 1 3

#### Semester Hours
15

#### Spring
- MET 2630 Manufacturing Techniques and Manufacturing Techniques Laboratory 4
- MET 3706 Machine Design 1 4
- CHEM 1515 General Chemistry 1 and General Chemistry 1 Laboratory 4
- ENGL 1551 Writing 2 3
- Social Science GER 1 3

#### Semester Hours
18

#### Total Semester Hours
66

1. General Education Requirement: see "Schedule of Classes" for details.  
   SPA = Social & Personal Awareness (2 required for BSAS)  
   SS = Social Sciences (2 required for BSAS)  
   AH = Arts & Humanities (2 required for BSAS)

### PROGRAM OUTCOMES

#### ASSOCIATE OF APPLIED SCIENCE IN mechanical engineering TECHNOLOGY

Graduates of the Associate Degree in Mechanical Engineering Technology will possess the following competencies upon graduation:

- mastery of knowledge, skills, and tools of the discipline
- ability to apply knowledge to solve engineering problems
- ability to conduct, analyze, and interpret experiments
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical, social, and diversity responsibilities and diversity
- commitment to quality, timeliness, and continuous improvement

### Associate of Technical Study in Power Plant Technology

#### Power Plant (Electrical Utilities) Technology

This program prepares graduates to perform basic operating functions required in electric utility power plants and other related industries. Students gain knowledge in electrical theory, electrical machinery and controls, power plant operations, boiler, turbine, and generator operations, power plant instrumentation, and pollution control equipment. In addition, college writing, oral communications, and general education form an integral part of the program. Upon successful completion of the program, students are prepared for entry-level employment in the utility industry.

Students in this program are awarded academic credit for skills-related experience and training to compliment the academic coursework at YSU. Graduates of this program are awarded an Associate of Technical Studies (ATS) Degree.
Bachelor of Science in Applied Science in Civil and Construction Engineering Technology

Bachelor of Science in Applied Science Degree
(330) 941-3287

Students in the Civil and Construction Engineering Technology (CCET) program may choose to complete two years of study and earn an Associate of Applied Science (AAS) degree. The AAS degree provides early access to employment in engineering support positions. Upon completion of the AAS degree, the student may continue on for the Bachelor of Science in Applied Science (BSAS) degree. This program provides additional coursework, continuing the student’s growth to that of an engineer or engineering designer. Exceptional students may be eligible for enrollment in a Master of Engineering or Master of Business Administration program.

The civil and construction engineering technology programs is based on the "two-plus-two" educational system which provides the student with the flexibility of earning an associate degree and a bachelor’s degree according to his or her needs. After completing the requirements of the associate degree, the student may elect to either enter industry or, through an added two years of full-time study (averaging 17 hours per semester) or equivalent part-time study, earn the Bachelor of Science in Applied Science (BSAS). Graduates of the BSAS degree program obtain employment as engineering technologists or engineering designers for government agencies, consulting engineers and architects, industry and manufacturing, and contractors. Because their education is more extensive, they are prepared for more responsibility and more-rapid advancement. BSAS engineers design, plan, inspect, and direct construction, production, and maintenance activities.

Based on an evaluation of their work, transfer students who have a related associate degree from a regionally accredited institution may be admitted to the bachelor’s degree program at the junior level.

Program Educational Objectives

Educational objectives for the civil and construction engineering technology programs have been developed by faculty and the program industrial advisory committee to support the university, college, and School of Engineering Technology missions. Graduates of the CCET associate degree program are prepared to support civil engineers in:

- structural design
- public works
- construction
- inspection
- transportation
- environmental engineering

Bachelor’s degree graduates are prepared to assist with planning, design, inspection, and direction of the construction of projects involving buildings, roads, dams, bridges, airports, and wastewater treatment facilities.

During their first few years after earning the civil and construction engineering technology degree at YSU, graduates will have demonstrated the ability to:

- Secure employment in a technical career related to their civil and construction engineering technology degree.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition consistent with their educational achievements.

Accreditation and Registration

The civil and construction engineering technology bachelor program is accredited by the ETAC Accreditation Commission of ABET, http://www.abet.org. In most states, including Ohio, West Virginia and Pennsylvania, bachelor’s degree graduates are qualified to take the Fundamentals of Engineering (FE) exam, and, with sufficient work experience, the Professional Engineers (PE) exam. Graduates are also qualified to apply to the National Institute for Certification in Engineering Technologies (NICET) for certification procedures in various specialty areas, depending on academic major and employment area.

Date of last campus visit: October, 2017
Accredited through: 2024
Next campus visit: 2023

Link to accrediting body: ABET (http://www.abet.org/)

**Course** | **Title** | **S.H.**
--- | --- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 
or HONR 1500 | Intro to Honors | 

**General Education Courses:**

MATH 1513 | Algebra and Transcendental Function | 5
ENGL 1550 or ENGL 1549 | Writing 1 | 3-4
ENGL 1551 | Writing 1 with Support | 
CMST 1545 | Communication Foundations | 3
PHIL 2626 or PHIL 2625 | Engineering Ethics | 3
GER SPA | 3
GER SPA | 3
GER SS | 3
GER SS | 3
GER AH | 3
CHEM 1515 | General Chemistry 1 | 3
CHEM 1515L | General Chemistry 1 Laboratory | 1
PHYS 1501 | Fundamentals of Physics 1 | 4

**Courses in the Major:**

MATH 2670 | Applied Calculus 2 | 5
MATH 1570 | Applied Calculus 1 | 4
ENTC 1505 | Engineering Technology Concepts | 4
CCET 1503 | CAD Technology | 2
CCET 1504 | Drafting and Plan Reading | 2
MET 1515 | Mechanics 1 | 3

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1 Level 20 on the MPT and eligibility to take ENGL 1550 Writing 1 (i.e., completion of R&SK and ENGL 1540 Introduction to College Writing or test out) are prerequisites. ENTC 1500 Technical Skills Development is a pre- or co-requisite.

2 General Education Requirement: see "Schedule of Classes" for details.
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>CCET 2604</td>
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<tr>
<td>CCET 2614L</td>
<td>Materials Laboratory 1</td>
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<tr>
<td>CEEN 2610</td>
<td>Surveying</td>
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<td>CEEN 2610L</td>
<td>Surveying Laboratory</td>
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<td>MET 2616</td>
<td>Mechanics 2</td>
<td>3</td>
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<td>CCET 2607</td>
<td>Civil 3D</td>
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<td>CCET 2620</td>
<td>Transportation Technology</td>
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<td>CCET 3706</td>
<td>Structural Design</td>
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<td>CCET 3709</td>
<td>Structural Analysis 1</td>
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<td>CCET 3711</td>
<td>Specifications and Estimating</td>
<td>3</td>
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<tr>
<td>CCET 3724</td>
<td>Hydraulics and Land Development</td>
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</table>

**Design Elective (3 courses required):**

- CCET 4812 Concrete Design
- CCET 4813 Steel Design
- CCET 4814 Foundation Design
- CCET 4815 Masonry Design
- CCET 4816 Timber Design
- CCET 3705 Computing for Technologists

<table>
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<td>CCET 4824</td>
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<td>CCET 4890</td>
<td>Special Topics in Civil and Construction Engineering Technology</td>
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<td>ENTC 4895</td>
<td>Independent Engineering Technology Project</td>
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<tr>
<td>CCET 3714</td>
<td>Soil Mechanics</td>
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<td>CCET 3714L</td>
<td>Soil Mechanics Laboratory (Technical Elective (1 courses required):)</td>
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**Technical Elective (1 courses required):**

- Any CCET or Design Elective
- MET 4870 Applied Finite Element Method
- CEEN 4835 Highway Design
- CEEN 5820 Pavement Material and Design
- CCET 4884 Civil/Structural Facilities Design
- EET 4810 Electrical System Design

**Total Semester Hours:** 135-137

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<tr>
<td></td>
<td>PHYS 1501 Fundamentals of Physics 1 4</td>
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<td>ENGL 1551 Writing 2 3</td>
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<td></td>
<td>Social Science GER 1 3</td>
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**Year 2**

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<td>CMST 1545 Communication Foundations 3</td>
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**Year 3**

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<td>EET 4810 Electrical System Design 3</td>
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<td></td>
<td>Arts &amp; Humanities GER 1 3</td>
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**Total Semester Hours:** 135
Bachelor of Science in Applied Science in Electrical Engineering Technology

Bachelor of Science in Applied Science Degree

The Electrical Engineering Technology program is based on the "two-plus-two" educational system which provides the student with the flexibility of earning an associate degree and a bachelor's degree according to his or her needs. After completing the requirements of the associate degree, the student may elect to either enter industry or, through an added two years of full-time study (averaging 17 hours per semester) or equivalent part-time study, earn the Bachelor of Science in Applied Science (BSAS).

The bachelor's degree program in electrical engineering technology prepares students for employment as engineering technologists or engineering designers. The students focus on analog and digital electronics communication systems, smart grid and power distribution, and computer networking systems. Co-op programs with various local companies enable EET students to gain experience and income during their junior and senior years. Many students work full or part-time while completing the BSAS degree taking evening classes. Students are encouraged to take the Fundamentals of Engineering (FE) exam as the first step toward professional registration.

Program Educational Objectives

Educational objectives for the electrical engineering technology programs have been developed by faculty and the program industrial advisory committee to support the university, college, and School of Engineering Technology missions. Graduates of the EET bachelor degree are prepared to assist in the design and testing of electrical systems and may function independently in some areas.

During their first few years after earning the electrical engineering technology degree at YSU, graduates will have demonstrated the ability to:

- Secure employment in a technical career related to their Electrical Engineering Technology degree.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition consistent with their educational achievements.

Accreditation and Registration

The electrical engineering technology bachelor program is accredited by the ETAC Accreditation Commission of ABET; http://www.abet.org. In most states, including Ohio, West Virginia and Pennsylvania, bachelor's degree graduates are qualified to take the Fundamentals of Engineering (FE) exam, and, with sufficient work experience, the Professional Engineers (PE) exam. Graduates are also qualified to apply to the National Institute for Certification in Engineering Technologies (NICET) for certification procedures in various specialty areas, depending on academic major and employment area.

Date of last campus visit: October, 2017
Accredited through: 2024
Next campus visit: 2023
Link to accrediting body: ABET (http://www.abet.org/)

Learning Outcome 6: perform standard analysis/design in at least one technical specialty within civil and construction engineering technology
**Technical Elective: Select 3 hours**

- ENGL 3743
- EET 4870
- EET 4812
- EET 4810
- EET 3760
- EET 3760L
- CCET 3705
- EET 3701
- EET 3745L
- EET 3745
- EET 3700
- PHYS 1501
- EET 3735L
- EET 3735
- EET 3715
- EET 3712L
- EET 3712
- EET 3710L
- EET 3710
- EET 2620L
- EET 2620
- EET 2605L
- EET 2605
- EET 1502L
- EET 1502
- EET 1501L
- EET 1501
- CCET 1503
- ENTC 1505
- MATH 2670
- MATH 1570
- Courses in the major:
  - GER SPA
  - GER SS
  - GER AH
  - PHIL 2626
  - EET Elective 37XX/48XX: Select 6 hours
    - MET 3705
    - ISEN 3710
    - ISEN 3724
    - MET 4860
    - MET 4860L
    - EET 3780
    - EET 3780L
    - EET 3790
    - EET 3790L
    - EET 3815
    - EET 4817
    - EET 4820
    - EET 4820L
    - EET 4845
    - EET 4845L
    - EET 4850
    - EET 4850L
    - EET 4890
    - EET 48XX
  - Total Semester Hours: 128-130

**Year 1**

**Fall**

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**Spring**

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| MET 3705 | Thermodynamics |
| ISEN 3710 | Engineering Statistics |
| ISEN 3724 | Engineering Economy |
| MET 4860 | Robotics Technology |
| MET 4860L | Robotics Technology Laboratory |

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**Year 1 Semester Hours:** 18

**Year 2**

**Fall**

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**Spring**

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**Year 2 Semester Hours:** 18-19

**Spring**

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**Year 2 Semester Hours:** 15
possess the following competencies upon graduation:

Graduates of the Bachelor's Degree in Electrical Engineering Technology will have demonstrated the ability to:

- **Learning Outcome 1:** apply principles of mathematics and applied science, to perform technical calculations and solve technical problems of the types commonly encountered in electrical engineering technology careers.
- **Learning Outcome 2:** demonstrate the ability to identify, formulate, and present creative solutions to technical problems in a variety of specialty areas within the broad fields of electrical engineering technology.
- **Learning Outcome 3:** be able to function competently in a laboratory setting, making measurements, operating technical equipment, critically examining experimental results, and properly reporting on experimental results, including their potential for improvement.
- **Learning Outcome 4:** be able to use modern computational tools for technical problem solving, including scientific calculators, computers, and appropriate software.
- **Learning Outcome 5:** demonstrate a broad education and knowledge of contemporary issues in a global and societal context, as necessary to develop professional and ethical responsibility, including responsibility to employers and to society at large.
- **Learning Outcome 6:** recognize the need for life-long learning and possess the skills to maintain and improve technical and non-technical abilities.
- **Learning Outcome 7:** demonstrate an ability to communicate and function effectively with members of multi-disciplinary teams from a variety of backgrounds.
- **Learning Outcome 8:** the ability to identify, formulate, and solve engineering problems in the following major electrical engineering technology disciplines: analog and digital electronics, communication systems, power, aerospace and computer systems.
- **Learning Outcome 9:** the knowledge of professional practice issues, with an understanding of social responsibilities and a respect for diversity.

### Bachelor of Science in Applied Science in Mechanical Engineering Technology

Students who have earned the associate degree may elect to complete the bachelor's degree on either a full- or part-time basis. Courses in the bachelor's degree program further develop technical, communication, and managerial skills. Upon successful completion of the coursework, graduates are awarded the Bachelor of Science in Applied Science degree and are prepared for greater levels of responsibility and greater career advancement.

Graduates of the BSAS degree program obtain employment as engineers or engineering designers for government agencies, consulting engineers and architects, industry and manufacturing, and contractors. Because their education is more extensive, they are prepared for more responsibility and more-rapid advancement. BSAS engineers and designers plan, design, and inspect production and maintenance activities.

Based on an evaluation of their work, transfer students who have a related associate degree from a regionally accredited institution may be admitted to the bachelor's degree program at the junior level.

### Educational Objectives

Educational objectives for the mechanical engineering technology programs have been developed by faculty and the program industrial advisory committee to support the university, the college, and the School of Engineering Technology missions. Graduates of the MET associate degree program function as assistants in the design, drafting and testing of mechanical products, equipment and processes. Bachelor's degree graduates assume greater responsibility in the design and testing of mechanical products, processes, and equipment.

During their first few years after completion of the mechanical engineering technology program at YSU, graduates will have demonstrated the ability to:

- Work competently in technical and professional careers related to the field of mechanical engineering technology, with a path to the BSAS degree.
• Communicate effectively in a professional environment.
• Continue growth in professional knowledge and skills.
• Achieve recognition and/or compensation consistent with their educational achievements.

Accreditation and Registration
The mechanical engineering technology bachelor program is accredited by the ETAC Accreditation Commission of ABET, http://www.abet.org. In most states, including Ohio, West Virginia and Pennsylvania, bachelor’s degree graduates are qualified to take the Fundamentals of Engineering (FE) exam, and, with sufficient work experience, the Professional Engineers (PE) exam. Graduates are also qualified to apply to the National Institute for Certification in Engineering Technologies (NICET) for certification procedures in various specialty areas, depending on academic major and employment area.

Date of last campus visit: October, 2017
Accredited through: 2024
Next campus visit: 2023
Link to accrediting body: ABET (http://www.abet.org/)

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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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**General Education Courses:**

| ENGL 1550 | Writing 1 | 3-4 |
| or ENGL 1549 | Writing 1 with Support | |
| ENGL 1551 | Writing 2 | 3 |
| CMST 1545 | Communication Foundations | 3 |
| MATH 1513 | Algebra and Transcendental Function | 5 |
| CHEM 1515 & 1515L | General Chemistry I and General Chemistry I Laboratory Lecture is 4 sh lab is 0 sh | 4 |
| PHYS 1501 | Fundamentals of Physics I | 4 |
| GER Social Science | | 3 |
| GER Social Science | | 3 |
| GER Arts and Humanities | | 3 |
| GER Arts and Humanities | | 3 |
| GER SPA | | 3 |
| GER SPA | | 3 |

**Courses in the Major:**

| MATH 1570 | Applied Calculus I | 4 |
| MATH 2670 | Applied Calculus II | 5 |
| ENTC 1505 | Engineering Technology Concepts | 4 |
| CCET 1503 | CAD Technology | 2 |
| CCET 1504 | Drafting and Plan Reading | 2 |
| CCET 2604 | Properties and Strength of Materials | 3 |
| CCET 2614L | Materials Laboratory I | 2 |
| MET 1515 | Mechanics I | 3 |
| MET 2606 | Solid Modeling | 4 |
| MET 2616 | Mechanics II | 3 |
| MET 2630 & 2630L | Manufacturing Techniques and Manufacturing Techniques Laboratory Lecture is 3 sh lab is 1 sh | 4 |
| MET 3706 | Machine Design | 4 |
| MET 3714 & 3714L | Fluid Mechanics and Fluid Mechanics Laboratory Lecture is 4 sh lab is 1 sh | 5 |
| MET 3720 | Mechanisms | 3 |
| MET 3707 | Machine Design II | 3 |
| EET 3725 & 3725L | Electromechanical Systems and Electromechanical Systems Laboratory Lecture is 1 sh | 4 |
| MET 3705 | Thermodynamics | 4 |
| CCET 3705 | Computing for Technologists | 3 |
| MET 3711 | Heat and Power Cycles | 4 |
| MET 4860 & 4860L | Robotics Technology and Robotics Technology Laboratory Lecture is 2 sh, lab is 1 sh | 3 |
| MET 4810 | Manufacturing Systems Analysis | 3 |
| MET 4820 | Machine Systems | 3 |
| MET 4870 | Applied Finite Element Method | 3 |
| MET Elective: Select 6 hours from list below | | 6 |
| MET 3710 | Tool Design | |
| MET 4812 & 4812L | Numerical Control and Numerical Control Laboratory Lecture is 3 sh lab is 1 sh | |
| MET 4890 | Special Topics in Mechanical Engineering Technology | |
| ENTC 4895 | Independent Engineering Technology Project | |
| ISEN/MGT Elective: Select 3 hours from list below | | 3 |
| ISEN 3720 | Statistical Quality Control | |
| MGT 3725 | Fundamentals of Management | |
| MGT 2604 | Legal Environment of Business I | |
| ENT 3700 | Entrepreneurship New Venture Creation | |

**Total Semester Hours:** 128-130

**Year 1**

| FALL | S.H. |
| YSU 1500 | Success Seminar | 1 |
| ENTC 1505 | Engineering Technology Concepts | 4 |
| MATH 1513 | Algebra and Transcendental Function | 5 |
| ENGL 1550 or ENGL 1549 | Writing 1 or Writing 1 with Support | 3-4 |
| CCET 1503 | CAD Technology | 2 |
| CCET 1504 | Drafting and Plan Reading | 2 |

**Semester Hours:** 17-18

| SPRING | |
| MET 1515 | Mechanics I | 3 |
| CCET 2604 | Properties and Strength of Materials | 3 |
| CCET 2614L | Materials Laboratory I | 2 |
| MET 1570 | Applied Calculus I | 4 |
| MET 2606 | Solid Modeling | 4 |
| **Semester Hours:** | 16 |

| FALL | |
| MET 2616 | Mechanics II | 3 |
| MET 3714 & 3714L | Fluid Mechanics and Fluid Mechanics Laboratory | 5 |
| PHYS 1501 | Fundamentals of Physics I | 4 |
| Arts & Humanities GER | | 3 |

**Semester Hours:** 15
ENGL 1551 Writing 2 3
Social Science GER 3 3

**Electives**

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<td>Numerical Control and Numerical Control Lab</td>
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<td>Special Topics in Mechanical Engineering Technology</td>
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<td>EET 4880</td>
<td>Electrical and Mechanical Facilities Design</td>
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<td>ENTC 4895</td>
<td>Independent Engineering Technology Project</td>
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<td>MGT 2604</td>
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**Total Semester Hours** 128-129

**Program Outcomes**

**BACHELOR OF SCIENCE IN APPLIED SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY**

Graduates of the Bachelor’s Degree in Mechanical Engineering Technology will possess the following competencies upon graduation:

- mastery of knowledge, skills, and tools of the discipline
- ability to apply knowledge to solve engineering problems
- ability to conduct, analyze, and interpret experiments
- ability to be creative in design
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical, and social responsibilities
- respect for diversity, professional, societal, and global issues
- commitment to quality, timeliness, and continuous improvement

**Minor in Electrical Engineering Technology**

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
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</tr>
<tr>
<td>EET 1501 &amp; 1501L</td>
<td>Circuit Theory 1 and Circuit Theory 1 Lab</td>
<td>4</td>
</tr>
<tr>
<td>EET 1502 &amp; 1502L</td>
<td>Circuit Theory 2 and Circuit Theory 2 Lab</td>
<td>4</td>
</tr>
<tr>
<td>EET 2605 &amp; 2605L</td>
<td>Electronics 1 and Electronics 1 Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>EET 2620 &amp; 2620L</td>
<td>Digital Electronics and Digital Electronics Lab</td>
<td>3</td>
</tr>
<tr>
<td>EET 3710 &amp; 3710L</td>
<td>Electrical Machines and Electrical Machines Lab</td>
<td>4</td>
</tr>
<tr>
<td>EET 3712 &amp; 3712L</td>
<td>Programmable Logic Controllers and PLC Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 23

**Department of Mathematics and Statistics**

501 Lincoln Building
(330) 941-3302

If you are attempting to register for a mathematics course and receive a registration error, please complete the Math Department Override Request Form ([https://forms.office.com/Pages/ResponsePage.aspx?id=F4pyQAeX5tBMmBwGkAwbqbWmJL4wz7JAItB8y9F81-JUNVNIIMVJKWTVBU1ZHM01amk00F0wOTRG814u](https://forms.office.com/Pages/ResponsePage.aspx?id=F4pyQAeX5tBMmBwGkAwbqbWmJL4wz7JAItB8y9F81-JUNVNIIMVJKWTVBU1ZHM01amk00F0wOTRG814u)). Please contact the Department of Mathematics and Statistics at (330) 941-3302 with any questions. Please visit the "Placements and Pathways" tab for more information about mathematics placement.
Students may select mathematics as their major for the following degree programs:

- Bachelor of Science (BS)
- Bachelor of Science in Education (BSEd)

In addition to satisfying general University requirements, all students majoring in mathematics must complete the following core courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2673</td>
<td>Calculus 3</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3715</td>
<td>Discrete Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3720</td>
<td>Linear Algebra and Matrix Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3721</td>
<td>Abstract Algebra 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3751</td>
<td>Real Analysis 1</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3743</td>
<td>Probability and Statistics</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
<td>4</td>
</tr>
</tbody>
</table>

Intermediate-level (2600) proficiency in a foreign language

Select one of the following:

- MATH 4896 Senior Undergraduate Research Project
- MATH 4897H Thesis
- STEM 4890 STEM Internship

In addition, students must complete 12 additional semester hours in mathematics or statistics at the 3700-level or above, with at least two courses chosen from the 4800-level. The total number of hours of mathematics is 40 semester hours.

In selecting appropriate courses, the student should consult a department advisor, since certain courses are recommended according to whether the student plans for graduate study in mathematics or statistics, secondary school teaching, or a career in business, industry, or government. The following courses are recommended based upon the student's interest and career goals:

**Traditional Mathematics**

In addition to the core, students seeking classical training in mathematics are recommended to take MATH 4822, MATH 4880, MATH 5852 and one additional 4800-level course in mathematics. The minor course of study may be any discipline. Suggested minors include biology, chemistry, computer science, economics, geology, physics, psychology, one engineering specialty (from chemical, civil, electrical, industrial, mechanical), or statistics. Students will study the nature of mathematics in fields such as algebra, real analysis, complex analysis, and topology. Connections to, and generalizations of, earlier formulations of mathematical concepts will constantly occur. Generally, new results in mathematics are developed and proven by those with a Ph.D. in mathematics. Students planning to pursue a Ph.D. will be well prepared for graduate school with these courses.

**Applied Mathematics**

Applied mathematics courses emphasize areas of mathematics used in government and industry. Students learn mathematical models for the study of physical and computational processes. Mathematical techniques are also used to study uncertainty, scheduling, and decision theory. Many graduates find employment in consulting firms and large corporations where computing and mathematical problem solving skills are valued. Students are also prepared to pursue a master’s degree in applied mathematics.

In addition to the core, students interested in applied mathematics are recommended to take MATH 3705, 3745, 4855, 5835, 5845, or 5860 and complete a recognized minor in any discipline. Suggested minors include statistics, computer science, engineering, physics, geology, chemistry, biology, logistics, or economics.

**Statistics**

Statistical techniques are utilized in many fields of research such as medicine, biology, business, and sociology. Statisticians learn proper methodology for collecting, summarizing, and interpreting data subject to sampling variability. The increase in affordable computing and the ease of statistical software have placed statistical expertise in demand. Generally, students interested in statistics pursue further study at the graduate level, but positions are available for students upon completion of a bachelor’s degree.

In addition to the core, students interested in statistics are recommended to fulfill their upper-level course requirements with statistics courses and complete a minor in statistics.

**Actuarial Mathematics**

Students interested in using mathematics and statistics to quantify risk and develop models to better predict and study risk should consider actuarial mathematics. Actuaries work for insurance companies, investment and consulting firms, as well as the government and seek ways to manage risk and avoid potential exposure to excessive risk. Actuaries assess pension plans, mortality rates, and accident rates. Students will study the mathematical and statistical foundations of actuarial models as they prepare for the examination sequence to become a licensed actuary.

In addition to the core, students interested in actuarial mathematics are recommended to take STAT 5800, STAT 4804, STAT 4844, STAT 4888, and STAT 5802 and complete a minor in actuarial science.

**Accelerated 4+1 Program**

Undergraduate students can apply for admission into the accelerated program for the MS in Mathematics after completing 78 undergraduate semester hours with a GPA of 3.3 or higher. After being admitted to the accelerated MS program, students can take a maximum of nine semester hours of graduate coursework that can count toward both a bachelor’s and master’s degree from the Department of Mathematics and Statistics. The courses chosen to count for both undergraduate and graduate coursework must be approved by the Graduate Executive Committee within the Department upon admission into the program. An additional six hours of graduate coursework can be completed as an undergraduate and used exclusively for graduate credit. This allows the student to graduate with a master’s degree with one year of additional full-time study beyond the bachelor’s degree.

**Chair**

Thomas P. Wakefield, Ph.D., Professor, Chair

**Professor**

Alexis Byers, Ph.D., Assistant Professor

Guang-Hwa (Andy) Chang, Ph.D., Professor

Neil Flowers, Ph.D., Assistant Professor

Richard G. Goldthwait, Ph.D., Assistant Professor

Jozsi Z. Jalics, Ph.D., Professor

G. Jay Kerns, Ph.D., Professor

Lucy Xiaojing Kerns, Ph.D., Associate Professor

Thomas L. Madsen, Ph.D., Associate Professor

Nguyet Thi Nguyen, Ph.D., Associate Professor

Anita C. O’Mellan, Ph.D., Professor

Alicia Prieto Langarica, Ph.D., Professor

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Prereq.:

As just in time review through the use of appropriate technology. The emphasis will be placed on prerequisite skills needed for college algebra as students requiring remediation in mathematics while studying college algebra.

Topics include real numbers, equations and inequalities, linear, quadratic, polynomial, exponential, and logarithmic functions, graphing techniques, systems of equations, and applications. The course fulfills the general education requirements for mathematics.

Prereq.: YSU Math Placement Level 35 or higher.

Gen Ed: Mathematics.

MATH 1511 Trigonometry 3 s.h.

This course, along with MATH 1510 is primarily intended to prepare STEM students for MATH 1570 or MATH 1571. Topics include algebraic structure and graphs of trigonometric functions and inverse trigonometric functions, angle measurements, similar triangles, trigonometric identities, vectors, complex numbers, polar coordinates and solving trigonometric equations with applications.

Prereq.: YSU Math Placement Level 35 or higher.

Gen Ed: Mathematics.

MATH 1511C Trigonometry with Co-requisite Support 4 s.h.

This course, along with MATH 1510C is primarily intended to prepare STEM students for MATH 1570 or MATH 1571. Topics include algebraic structure and graphs of trigonometric functions and inverse trigonometric functions, angle measurements, similar triangles, trigonometric identities, vectors, complex numbers, polar coordinates and solving trigonometric equations with applications. This course includes support for students requiring remediation in mathematics while they are studying trigonometry. Emphasis will be placed on prerequisite skills needed for trigonometry as well as just in time review through the use of appropriate technology.

Prereq.: YSU Math Placement Test Level 20 and a grade of C or better in MATH 1510C.

Gen Ed: Mathematics.

MATH 1513 Algebra and Transcendental Function 5 s.h.

Function concepts including trigonometric, exponential, and logarithmic functions. Application problems and graphing. Supplemental topics.

Prereq.: Math Placement Level 45 or higher.

Gen Ed: Mathematics.

MATH 1552 Applied Mathematics for Management 4 s.h.

This course is adapted for those who require applied topics in mathematics. Not applicable toward the Mathematics major. Credit will not be given for both MATH 1552 and MATH 1570.

Prereq.: One of Math 1510, Math 1510C, or Math 1513 with grade of “C” or better or at least Level 45 on the YSU Mathematics Placement Test.

Gen Ed: Mathematics.

MATH 1564 Foundations of Middle School Mathematics 1 4 s.h.

Conceptual foundations of topics from number theory, operations, functions, algebra, and data analysis. Emphasis on multiple approaches and representations, problem solving, and communication of mathematical reasoning. Includes inquiry-based experiences with manipulatives and computing technology.

Prereq.: Level 35 on the Mathematics Placement Test.

MATH 1570 Applied Calculus 1 4 s.h.

The elements of differential and integral calculus, with emphasis on applications. Analytical geometry, differentiation and integration techniques and series representations. Introduction to differential equations, transform calculus, and Fourier analysis. This is a basic methods course particularly adapted for those who require applied topics in mathematics. Not applicable toward the Mathematics major. Credit will not be given for both MATH 1552 and MATH 1570.

Prereq.: At least Level 70 on the YSU Mathematics Placement Test or "C" or better in either MATH 1510 and MATH 1511, MATH 1510C and MATH 1511C, or MATH 1513.

Gen Ed: Mathematics.

MATH 1571 Calculus 1 4 s.h.

This course is an introduction to calculus. The main concepts to be studied are limits, continuity, rates of change, derivatives, integrals and applications.

Prereq.: At least Level 70 on the YSU Mathematics Placement Test or C or better in either MATH 1510 and MATH 1511, MATH 1510C and MATH 1511C, or MATH 1513.

Gen Ed: Mathematics.

Majors

• BS in Mathematics (p. 487)

Minors

• Mathematics Minor (p. 489)
• Statistics Minor (p. 489)
• Biomathematics Minor (p. 488)
• Actuarial Science Minor (p. 488)

Mathematics

MATH 1500 Mathematics Preparation for Algebra Placement 2 s.h.

This course is for students in the algebra pathway (mainly pre-STEM and pre-business) who wish to improve their mathematics placement and skills in desired areas of mathematics. Topics covered are uniquely determined by the student's initial placement assessment. Does not count toward the degree. May be repeated. Grading is ABC/NC.

MATH 1510 College Algebra 4 s.h.

This course is primarily intended to prepare STEM students (along with MATH 1511) for MATH 1570 or 1571 and business students for MATH 1552. Topics include real numbers, equations and inequalities, linear, quadratic, polynomial, exponential, and logarithmic functions, graphing techniques, systems of equations, and applications. The course fulfills the general education requirements for mathematics.

Prereq.: YSU Math Placement Level 35 or higher.

Gen Ed: Mathematics.

MATH 1510C College Algebra with Co-requisite Support 6 s.h.

This course is primarily intended to prepare STEM students (along with MATH 1511C) for MATH 1570 or 1571 and business students for MATH 1552. Topics include real numbers, equations and inequalities, linear, quadratic, polynomial, exponential, and logarithmic functions, graphing techniques, systems of equations, and applications. It includes corequisite support for students requiring remediation in mathematics while studying college algebra. Emphasis will be placed on prerequisite skills needed for college algebra as well as just in time review through the use of appropriate technology. The course fulfills the general education requirements for mathematics.

Prereq.: YSU Math Placement Level 20.

Gen Ed: Mathematics.

MATH 1511 Trigonometry 3 s.h.

This course, along with MATH 1510 is primarily intended to prepare STEM students for MATH 1570 or MATH 1571. Topics include algebraic structure and graphs of trigonometric functions and inverse trigonometric functions, angle measurements, similar triangles, trigonometric identities, vectors, complex numbers, polar coordinates and solving trigonometric equations with applications.

Prereq.: YSU Math Placement Level 35 or higher.

Gen Ed: Mathematics.

MATH 1511C Trigonometry with Co-requisite Support 4 s.h.

This course, along with MATH 1510C is primarily intended to prepare STEM students for MATH 1570 or MATH 1571. Topics include algebraic structure and graphs of trigonometric functions and inverse trigonometric functions, angle measurements, similar triangles, trigonometric identities, vectors, complex numbers, polar coordinates and solving trigonometric equations with applications. This course includes support for students requiring remediation in mathematics while they are studying trigonometry. Emphasis will be placed on prerequisite skills needed for trigonometry as well as just in time review through the use of appropriate technology.

Prereq.: YSU Math Placement Test Level 20 and a grade of C or better in MATH 1510C.

Gen Ed: Mathematics.

MATH 1513 Algebra and Transcendental Function 5 s.h.

Function concepts including trigonometric, exponential, and logarithmic functions. Application problems and graphing. Supplemental topics.

Prereq.: Math Placement Level 45 or higher.

Gen Ed: Mathematics.

MATH 1552 Applied Mathematics for Management 4 s.h.

Apply functions and linear systems to business including use of technology; mathematics of finance and an introduction to limits, derivatives and integrals with business applications. Credit will not be given to students who have completed MATH 1570, 1571, 1571H, or 1585H.

Prereq.: One of Math 1510, Math 1510C, or Math 1513 with grade of “C” or better or at least Level 45 on the YSU Mathematics Placement Test.

Gen Ed: Mathematics.

MATH 1564 Foundations of Middle School Mathematics 1 4 s.h.

Conceptual foundations of topics from number theory, operations, functions, algebra, and data analysis. Emphasis on multiple approaches and representations, problem solving, and communication of mathematical reasoning. Includes inquiry-based experiences with manipulatives and computing technology.

Prereq.: Level 35 on the Mathematics Placement Test.

MATH 1570 Applied Calculus 1 4 s.h.

The elements of differential and integral calculus, with emphasis on applications. Analytical geometry, differentiation and integration techniques and series representations. Introduction to differential equations, transform calculus, and Fourier analysis. This is a basic methods course particularly adapted for those who require applied topics in mathematics. Not applicable toward the Mathematics major. Credit will not be given for both MATH 1552 and MATH 1570.

Prereq.: At least Level 70 on the YSU Mathematics Placement Test or "C" or better in either MATH 1510 and MATH 1511, MATH 1510C and MATH 1511C, or MATH 1513.

Gen Ed: Mathematics.

MATH 1571 Calculus 1 4 s.h.

This course is an introduction to calculus. The main concepts to be studied are limits, continuity, rates of change, derivatives, integrals and applications.

Prereq.: At least Level 70 on the YSU Mathematics Placement Test or C or better in either MATH 1510 and MATH 1511, MATH 1510C and MATH 1511C, or MATH 1513.

Gen Ed: Mathematics.
MATH 1572  Calculus 2  4 s.h.
A sequence of integrated courses in analytic geometry and calculus. A detailed study of limits, derivatives, and integrals of functions of one and several variables with applications.
Prereq.: C or better in MATH 1571, 1571H, or 1581H.
Gen Ed: Mathematics.

MATH 1580H  Honors Biomathematics 1  2 s.h.
Counting techniques, probability, matrices and linear systems. Emphasis on the role of mathematical models in explaining and predicting phenomena in life sciences.
Prereq.: Admission to NEOMED-YSU program.

MATH 1581H  Honors Biomathematics 2  4 s.h.
Limits, derivatives, integrals; emphasizes theory, proofs, nonlinear epiloins, medical/health applications. Rigorously develops logarithmic/exponential functions. Major projects applying differential equations to medicine. Credit can be given for both MATH 1571 and MATH 1581H if taken in that order; MATH 1581H can be prerequisite for MATH 1572.
Prereq.: Admission to YSU-BaccMed program.
Gen Ed: Mathematics.

MATH 1585H  Honors Calculus Laboratory 1  5 s.h.
A sequence of honors courses in analytical geometry and calculus which cover essentially the same material as MATH 1571, 1572, 2673, in two semesters instead of three. A detailed study of limits, derivatives, and integrals of functions of one and several variables and their applications. This sequence will be offered at most once during each academic year.
Prereq.: ACT math subscore of 32, AP Calculus score of 4 or higher, or at least one unit of high school calculus with a score of 28 or higher on placement exam or instructor permission.
Gen Ed: Mathematics.

MATH 2623  Quantitative Reasoning  3 s.h.
Mathematics models emphasizing basic ideas in mathematics and statistics, stressing concept formation rather than manipulative skills.
Prereq.: YSU Mathematics Placement Level 15 or higher.
Gen Ed: Mathematics.

MATH 2623C  Quantitative Reasoning with Co-Requisite Support  5 s.h.
Mathematics models emphasizing basic ideas in mathematics and statistics, stressing concept formation rather than manipulative skills. This course includes corequisite support for students requiring remediation in mathematics while studying quantitative reasoning. Emphasis for the support will be placed on prerequisite skills needed for MATH 2623 as well as just in time review through the use of appropriate technology.
Prereq.: YSU Mathematics Placement Level 10.
Gen Ed: Mathematics.

MATH 2661  Mathematics for Elementary Teachers 1  4 s.h.
A conceptual development of mathematics topics underlying today's Pre-K-grade 5 curriculum (Number, Operations, and Algebraic Thinking). Emphasis on multiple approaches, problem solving, and communication of mathematics. Incorporates manipulatives, technology, and classroom activities developmentally appropriate for early and elementary children.
Prereq.: At least Level 15 on the Mathematics Placement Test.

MATH 2661C  Mathematics for Elementary Teachers I with Co-Requisite Support  6 s.h.
A conceptual development of mathematics topics underlying today's Pre-K-grade 5 curriculum (Number, Operations, and Algebraic Thinking). Emphasis on multiple approaches, problem solving, and communication of mathematics. Incorporates manipulatives, technology, and classroom activities developmentally appropriate for early and elementary children. This course includes corequisite support for students requiring remediation in mathematics. Emphasis will be placed on prerequisite skills needed for Algebra, Number and Operations, and Quantity topics as well as just in time review through the use of appropriate technology.
Prereq.: YSU Math Placement Level 10.

MATH 2662  Mathematics for Elementary Teachers 2  4 s.h.
Prereq.: C or better in either MATH 2661 or MATH 2661C.
Gen Ed: Mathematics.

MATH 2665  Foundations of Middle School Mathematics 2  4 s.h.
Emphasis on multiple approaches and representations, problem solving, and communication of mathematical reasoning. Includes inquiry-based experiences with manipulatives and computing technology.
Prereq.: Level 35 on the Mathematics Placement Test.
Gen Ed: Mathematics.

MATH 2670  Applied Calculus 2  5 s.h.
The elements of differential and integral calculus, with emphasis on applications. Analytical geometry, differentiation and integration techniques and series representations. Introduction to differential equations, transform calculus, and Fourier analysis. This is a basic methods course particularly adapted for those who require applied topics in mathematics. Not applicable toward the Mathematics major.
Prereq.: MATH 1570 grade of "C" or better.
Gen Ed: Mathematics.

MATH 2673  Calculus 3  4 s.h.
A sequence of integrated courses in analytic geometry and calculus. A detailed study of limits, derivatives, and integrals of functions of one and several variables with applications.
Prereq.: MATH 1572 with a "C" or better.

MATH 2686H  Honors Accelerated Calculus 2  5 s.h.
A sequence of honors courses in analytical geometry and calculus which cover essentially the same material as MATH 1571, 1572, 2673, in two semesters instead of three. A detailed study of limits, derivatives, and integrals of functions of one and several variables and their applications. This sequence will be offered at most once during each academic year.
Prereq.: "C" or better in MATH 1585H.
Gen Ed: Mathematics.

MATH 2687H  Honors Calculus Laboratory 2  1 s.h.
Introduction to mathematical modeling of topics covered in calculus. Emphasizes the use of technology such as computer algebra systems, technical document processing, and graphics software for solving problems and reporting solutions.

MATH 2686H  Honors Accelerated Calculus 2  5 s.h.
A sequence of honors courses in analytical geometry and calculus which cover essentially the same material as MATH 1571, 1572, 2673, in two semesters instead of three. A detailed study of limits, derivatives, and integrals of functions of one and several variables and their applications. This sequence will be offered at most once during each academic year.
Prereq.: MATH 1572 or concurrent with MATH 1585H.
Gen Ed: Mathematics.

MATH 2686H  Honors Calculus Laboratory 2  1 s.h.
Introduction to mathematical modeling of topics covered in calculus. Emphasizes the use of technology such as computer algebra systems, technical document processing, and graphics software for solving problems and reporting solutions.
Prereq.: MATH 1572 or concurrent with MATH 1585H.
Gen Ed: Mathematics.

MATH 3702  Problem Solving Techniques for Secondary Mathematics  3 s.h.
Approaches to and practice with problem solving with examples from a broad spectrum of mathematics. Emphases include problems at the level of the Ohio Assessment for Educators (OAE) examination for integrated mathematics and problems suitable for high school contests. Not applicable to the mathematics major or minor.
Prereq.: Limited to TELS majors with MATH 1572, 1572H or MATH 1585H or consent of instructor.
MATH 3705 Differential Equations 3 s.h.
Prereq.: C or better in one of MATH 2673, MATH 2673H, or MATH 2686H.

MATH 3715 Discrete Mathematics 3 s.h.
A course in discrete mathematical structures to prepare students for advanced courses. Topics include set theory, functions and relations, logic and quantifiers, truth tables and Boolean expressions, induction and other techniques of proof, and graphs. Credit will not be given for both CSCI 3710 and MATH 3715.
Prereq.: MATH 1572 or MATH 1585H.

MATH 3715H Honors Discrete Mathematics 3 s.h.
A course in discrete mathematical structures to prepare students for advanced courses. Topics include set theory, functions and relations, logic and quantifiers, truth tables and Boolean expressions, induction and other techniques of proof, and graphs. Credit will not be given for both CSCI 3710 and MATH 3715.
Prereq.: MATH 1572 or MATH 1585H.

MATH 3718 Linear Algebra and Discrete Mathematics for Engineers 3 s.h.
This introduction to linear algebra and discrete mathematics covers the following topics: systems of linear equations, logic and proof, matrix algebra, determinants, vector spaces, eigenvalues and eigenvectors, set theory, and counting. The course does not count toward the mathematics major. Credit will not be given for MATH 3718 and both MATH 3715 and MATH 3720.
Prereq.: "C" or better in MATH 1572.

MATH 3720 Linear Algebra and Matrix Theory 3 s.h.
Matrices; matrix operations; linear transformations; applications.
Prereq.: MATH 1572 or MATH 1585H.

MATH 3721 Abstract Algebra 1 4 s.h.
Introduction to abstract algebra investigating fundamental concepts in group, ring theory. Topics include groups, subgroups, cyclic groups, permutation groups, cosets, direct products, homomorphisms, factor groups, rings, integral domains and polynomial rings.
Prereq.: MATH 3715 and MATH 3720.

MATH 3745 Topics in Mathematical Modeling 3 s.h.
This course exposes students to methods of mathematical modeling through applications. Tools used to develop, refine, test, and present mathematical models will be discussed. Topics covered and projects undertaken may vary with each course offering and are designed to expose students to the types of problems modeled by applied mathematicians working in business, government, industry, or research. Course may be repeated depending on projects or topics presented.
Prereq.: MATH 2673 or MATH 2686H or permission of the instructor.

MATH 3750 History of Mathematics 3 s.h.
A survey of the historical development of mathematics.
Prereq.: MATH 3715.

MATH 3751 Real Analysis 1 4 s.h.
Introduction to the properties of the real number system and metrics and metric properties, with critical analysis of limits, continuity, differentiability, integration, and other fundamental concepts underlying the calculus.
Prereq.: MATH 3715 and one of MATH 2673 or MATH 2686H.

MATH 3767 Algebra/Geometry for Middle School Teachers 1 4 s.h.
MATH 3767, MATH 3768 is an integrated, conceptual, and function-centered approach to the foundations of algebra, geometry, and trigonometry to preserve middle childhood mathematics specialists. Emphasis on multiple approaches and representations, problem solving, and communication of mathematical reasoning. Includes inquiry-based experiences. MATH 3767 focuses on conceptual foundations of algebra and parts of coordinate geometry. Not applicable to the mathematics major.
Prereq.: Level 35 on the Mathematics Placement Test.

MATH 3768 Algebra/Geometry for Middle School Teachers 2 4 s.h.
MATH 3767 and MATH 3768 is an integrated, conceptual, and function-centered approach to the foundations of algebra, geometry, and trigonometry to preserve middle childhood mathematics specialists. Emphasis on multiple approaches and representations, problem solving, and communication of mathematical reasoning. Includes inquiry-based experiences. MATH 3768 focuses on synthetic, analytic and transformational geometry. Not applicable to the mathematics major.
Prereq.: MATH 2665 and level 35 on the Mathematics Placement Test.

MATH 3795 Topics in Mathematics 1-4 s.h.
The study of a mathematical topic or the development of a special area of mathematics. May be repeated once.
Prereq.: "C" or better in a general education mathematics course and permission of the instructor.

MATH 3795E Topics in Mathematics: Teaching Math in Secondary Schools 1-4 s.h.
The study of a mathematical topic or the development of a special area of mathematics. May be repeated once.
Prereq.: "C" or better in a general education mathematics course and permission of the instructor.

MATH 4822 Abstract Algebra 2 3 s.h.
a continuation of MATH 3721 with special emphasis on fields. Additional topics in pure or applied algebra.
Prereq.: MATH 3721 or equivalent.

MATH 4823 Abstract Algebra 3 3 s.h.
This course introduces advanced topics in field theory. Topics may include principal ideal domains, irreducibility, quotient rings, algebraic extensions, finite fields, splitting fields, and the Galois group.
Prereq.: MATH 4822.

MATH 4830 Foundations of Geometry 3 s.h.
The development of Euclidean and non-Euclidean geometries from postulate systems.
Prereq.: MATH 3715.

MATH 4832 Euclidean Transformations 3 s.h.
General properties of functions and transformations; isometries and transformations of the Euclidean plane; the complex plane, its geometry and subfields; transformational, analytical, and vector approaches to Euclidean geometry; connections to other branches of mathematics and applications.
Prereq.: MATH 3720 and MATH 4830.

MATH 4855 Ordinary Differential Equations 3 s.h.
A second course in differential equations with emphasis on nonlinear problems and qualitative methods or on boundary value problems. Topics are chosen from: proofs of fundamental theorems, phase plane analysis, limit cycles and the Poincare-Bendixon theorem, biological models, stability via Liapunov functions, asymptotic methods, and boundary value problems.
Prereq.: MATH 3705 and MATH 3720.

MATH 4857 Partial Differential Equations 3 s.h.
Introduction to partial differential equations (PDE) including solution techniques and applications. Classification of the basic types of PDEs (hyperbolic, parabolic and elliptic) and dependence on boundary and initial conditions. Topics include Fourier series, integral transforms (Fourier, Laplace), and applications in vibrations, electricity, heat transfer, fluids or other selected topics.
Prereq.: MATH 3705 and MATH 3720.

MATH 4869 Functions, Calculus, and Applications for Middle School Teachers 3 s.h.
Polynomial and exponential functions, limits, derivatives, integrals, and applications. Interpretation of slope and area in graphs of functions from applied settings. Applications of limits to the derivations of geometric formulas. Relations between tables, graphs, and the symbolic representation of functions.
Prereq.: MATH 3767 or consent of instructor.
MATH 4870 Mathematics Concepts for Middle School Teachers 3 s.h.
Problem solving from a broad spectrum of mathematics topics (Number Sense and Operations; Algebra, Functions, and Calculus; Measurement and Geometry; Statistics, Probability, and Discrete Mathematics) designed to prepare future middle school mathematics teachers to address Common Core Standards. May be repeated 2 times.
Prereq.: MATH 1564, 2665, MATH 3767, MATH 3768, MATH 4869, and either STAT 2601, STAT 2625 or STAT 2625C.

MATH 4875 Complex Variables 3 s.h.
Complex numbers and their geometric representation, analytic functions of a complex variable, contour integration, Taylor and Laurent series, residues and poles, conformal mapping.
Prereq.: MATH 3751 or equivalent.

MATH 4880 Introduction to Topology 3 s.h.
An introduction to the basic concepts of general topology: compactness, connectedness, and continuity in topological spaces.
Prereq.: MATH 3721 and MATH 3751.

MATH 4882 Mathematical Biology Research 1-3 s.h.
Introduction to research in mathematical biology through an interdisciplinary study of a topic in biology and mathematics. May be repeated once. Grading is Traditional/PR. Listed also as BIOL 4882.
Prereq.: MATH 1571 or permission of the instructor.

MATH 4884 Mathematical Logic 3 s.h.
An introduction to the study of theories in formalized languages and to the theory of models.
Prereq.: MATH 3721 or PHIL 3719.

MATH 4896 Senior Undergraduate Research Project 2 s.h.
Individualized study of a topic in mathematics culminating in a written report and an oral presentation at a national or regional meeting or a local seminar. May be repeated once.
Prereq.: 24 s.h. of mathematics applicable to the mathematics major including either MATH 3721 or MATH 3751 and permission of the department chairperson.

Gen Ed: Capstone.

MATH 4897H Thesis 2 s.h.
Individualized study of a topic in mathematics culminating in a written report and an oral presentation at a national or regional meeting or a local seminar.
Prereq.: 24 s.h. of mathematics applicable to the mathematics major including both MATH 3721 and MATH 3751 and permission of the department chairperson.

MATH 5821 Topics in Abstract Algebra 4 s.h.
A course in abstract algebra aimed at developing a broad understanding of the subject. Credit will not be given for both MATH 3721 and MATH 5821.
Prereq.: MATH 3715 and MATH 3720.

MATH 5825 Advanced Linear Algebra 3 s.h.
A study of abstract vector spaces, linear transformations, duality, canonical forms, the spectral theorem, and inner product spaces.
Prereq.: MATH 3721.

MATH 5828 Number Theory 3 s.h.
A study of congruences, Diophantine equations, quadratic residues, special number theory functions, and selected applications.
Prereq.: MATH 3721.

MATH 5835 Introduction to Combinatorics and Graph Theory 3 s.h.
The pigeonhole principle; permutations, combinations, the binomial theorem; the inclusion-exclusion principle; recurrence relations; graphs and digraphs, paths and cycles, trees, bipartite graphs and matchings.
Prereq.: C or better in either MATH 3715 or CSCI 3710 and C or better in Math 3720.

MATH 5845 Operations Research 3 s.h.
An introduction to operations research with emphasis on mathematical methods. Topics may include: linear programming, sensitivity analysis, duality theory, transportation problems, assignment problems, transshipment problems, and network problems.
Prereq.: MATH 3715 and MATH 3720.

MATH 5851 Topics in Analysis 4 s.h.
A course in analysis aimed at developing a broad understanding of the subject. Credit will not be given for both MATH 3751 and MATH 5851.
Prereq.: MATH 2673 or MATH 2686H and MATH 3720 and MATH 3715.

MATH 5852 Real Analysis 2 3 s.h.
Uniform convergence of sequences of functions and some consequences; functions on n-space: derivatives in vector spaces, mean value theorem, Taylor’s formula, inverse mapping theorem, implicit mapping theorem.
Prereq.: MATH 3720 and MATH 3751 or equivalent.

MATH 5860 Numerical Analysis 1 3 s.h.
The theory and techniques of numerical computation. The solution of a single equation, interpolation methods, numerical differentiation and integration, direct methods for solving linear systems.
Prereq.: MATH 3720 and CSIS 2610 and MATH 2673, 2673H, or 2686H.

MATH 5861 Numerical Analysis 2 3 s.h.
Numerical methods of initial-value problems, eigenvalue problems, iterative methods for linear and nonlinear systems of equations, and methods involving least squares, orthogonal polynomials, and fast Fourier transforms.
Prereq.: MATH 5860 or equivalent.

MATH 5875 Complex Variables 3 s.h.
Complex numbers and their geometric representation, analytic functions of a complex variable, contour integration, Taylor and Laurent series, residues and poles, conformal mapping.
Prereq.: MATH 3751 or equivalent.

MATH 5895 Selected Topics in Mathematics 2-3 s.h.
The study of a standard mathematical topic in depth or the development of a special area of mathematics. May be repeated twice.
Prereq.: 24 s.h. of mathematics applicable to the mathematics major including either MATH 3721 or MATH 3751.

Statistics

STAT 2601 Introductory Statistics 3 s.h.
Designed for students from different disciplines who desire an introduction to statistical reasoning. Topics include collecting and summarizing data, concepts of randomness and sampling, statistical inference and reasoning, correlation and regression. Credit will not be given for both STAT 2601 and STAT 2625.
Prereq.: “C” or better in MATH 1552 or Level 35 or higher on YSU Mathematics Placement Test.
Gen Ed: Mathematics.

STAT 2625 Statistical Literacy and Critical Reasoning 4 s.h.
An introduction to statistics and its applications. Topics include descriptive statistics, experimental design, probability sampling distribution, statistical inference, correlation and regression. Emphasis on applications, critical reasoning, and data analysis using statistical software. Credit will not be given for both STAT 2601 and STAT 2625.
Prereq.: At least Mathematics Placement Level 15.
Gen Ed: Mathematics.

STAT 2625C Statistical Literacy and Critical Reasoning with Co-Requisite Support 6 s.h.
An introduction to statistics and its applications. Topics include descriptive statistics, experimental design, probability sampling distribution, statistical inference, correlation and regression. Emphases are on applications, critical reasoning, and data analysis using statistical software. Includes co-requisite support for basic algebra skills required to be successful in the course.
Prereq.: YSU Mathematics Placement Level 10.
Gen Ed: Mathematics.
STAT 3717  Statistical Methods  4 s.h.
Probability and statistics designed for students majoring in the natural sciences. Topics include descriptive statistics, probability, estimation, testing hypotheses, analysis of variance, regression and nonparametric statistics. Use of personal computers with computer software will be required. Credit will not be given for both STAT 3717 and STAT 3743.
Prereq.: One of MATH 1552, MATH 1570, MATH 1571, Math 1571H, MATH 1581H, MATH 1585H or equivalent.

STAT 3743  Probability and Statistics  4 s.h.
A calculus-based probability and statistics course. Topics include descriptive statistics, probability models and related concepts and applications, statistical estimation, and hypothesis testing. Credit will not be given for both STAT 3717 and STAT 3743.
Prereq.: MATH 1572 or MATH 1585H.

STAT 3781H  Honors Biostatistics  3 s.h.
Descriptive statistics, testing hypotheses, analysis of count data, correlation, regression, nonparametric statistics, and analysis of variance with applications relating to biological and health sciences.
Prereq.: MATH 1580H and MATH 1581H, or equivalent.

STAT 4804  Long-Term Actuarial Mathematics 1  3 s.h.
An introduction to long-term actuarial mathematics through an analysis of survival models and their applications as well as the determination and interpretation of probabilities and statistics related to the present value random variable.
Prereq.: STAT 3743 or consent of department chairperson.

STAT 4805  Long-Term Actuarial Mathematics 2  3 s.h.
A continuation of the study of long-term actuarial mathematics through the application of premium-calculation methodologies and reserving.
Prereq.: STAT 4804.

STAT 4817  Applied Statistics  3 s.h.
Application of regression, survey sampling, analysis of variance, design and analysis of experiments, and related topics.
Prereq.: STAT 3717 or STAT 3743 or equivalent.

STAT 4843  Theory of Probability  3 s.h.
The mathematical foundation of probability theory including the study of discrete and continuous distributions. Other topics selected from limit theorems, generating functions, stochastic processes, and applications.
Prereq.: STAT 3743 and one of MATH 2673 or MATH 2686H or consent of department chairperson.

STAT 4844  Theory of Statistics  3 s.h.
The mathematical theory of statistical inferences including likelihood principle, sufficient statistics, theory of statistical estimation, hypothesis testing and related topics.
Prereq.: STAT 4843.

STAT 4845  Stochastic Process Models  3 s.h.
Introduction to the mathematical foundations of the theory and application of stochastic processes. Topics include Markov processes, Poisson processes, queueing theory, and simulation. Other topics selected from limit theorems, Brownian Motion, and stationary processes.
Prereq.: STAT 4843.

STAT 4848  Applied Regression Time Series  3 s.h.
Statistical methods for regression and time series analysis. Topics include applied linear regression with model fitting and diagnostics, data analysis, and forecasting with time series models.
Prereq.: STAT 3717 or STAT 3743.

STAT 4849  Design of Experiments  3 s.h.
The objective of this course is to learn how to plan, design and conduct experiments efficiently, and apply statistical techniques on resulting data to obtain conclusions. Topics include introduction of experiments, complete randomized designs, blocking designs, factorial designs, nested designs, and random effects models.
Prereq.: STAT 4817 or STAT 6940 or equivalent.

STAT 4888  Actuarial Models in Financial Economics  3 s.h.
An introduction to actuarial models in financial economics. Topics include the Black-Scholes framework for pricing derivatives, the binomial pricing model, and interest rate models.
Prereq.: STAT 4843.

STAT 4896  Statistical Project  2 s.h.
Individualized study of a topic in statistics culminating in a written report and an oral presentation. May be repeated once.
Prereq.: STAT 4817 and permission of chairperson.

Gen Ed: Capstone.

STAT 5800  Mathematical Foundations of Actuarial Science  3 s.h.
A survey of probability theory and an introduction to risk management. Emphasis of the course will be on problem solving with applications in actuarial science.
Prereq.: STAT 4843 or consent of instructor.

STAT 5801  Data Management  3 s.h.
This course covers the basic concepts of database systems and emphasizes the real-world database applications relevant to the management of data in an organization environment. The topics include (not limited to) database environment, database development, relational database management systems, SQL/NoSQL data management language, data normalization, data warehousing, and internet database environment. Credit will not be given for both DATX 5801 and CSIS 7222. Cross-Listed: h.
Prereq.: Junior standing or higher and GPA of 2.5 or higher. h.

STAT 5802  Theory of Interest  3 s.h.
Mathematical theory and techniques in analysis of interest. Topics include measurement of interest, force of interest, annuities, amorization, pricing of investment products, and applications to actuarial sciences.
Prereq.: MATH 1572 and any 3700 level MATH, STAT, ECON, or FIN course.

STAT 5806  Seminar in Actuarial Science  2-3 s.h.
Approaches to and practice with problem solving in actuarial science. Topics may include financial mathematics, financial economics, or actuarial modeling. May be repeated once. Not applicable to the mathematics major.
Prereq.: STAT 4843 or consent of the instructor.

STAT 5811  SAS Programming for Data Analytics  3 s.h.
An introduction to SAS programming for data analytics. Topics include using SAS for data processing, manipulation, visualization, reporting and statistical analysis. The objective is for students to develop statistical computing skills for problem solving and decision making. Also listed as ECON 5861.
Prereq.: STAT 3717 or STAT 3743 or STAT 2601 or ECON 790 or equivalent.

STAT 5814  Statistical Data Mining  3 s.h.
A systematic introduction to data mining with emphasis on various data mining problems and their solutions. Topics include data mining processes and issues, exploratory data analysis, supervised and unsupervised learning, classification, and prediction methods.
Prereq.: STAT 3717 or STAT 3743, or consent of department chairperson.

STAT 5819  Bayesian Statistics  3 s.h.
An introduction to the Bayesian approach to statistical inference for data analysis in a variety of applications. Data analysis using statistical software will be emphasized. Topics include: comparison of Bayesian and frequentist methods, Bayesian model specification, prior specification, basics of decision theory, Markov chain Monte Carlo, Bayes factor, empirical Bayes, Bayesian linear regression and generalized linear models, hierarchical models.
Prereq.: STAT 3717 or STAT 3743 or STAT 4817 or STAT 6940 or equivalent.

STAT 5840  Statistical Computing  3 s.h.
Computational methods used in statistics. Topics include generation and testing of random numbers, computer intensive methods, and simulation studies.
Prereq.: STAT 3717 or STAT 3743.

STAT 5864  Categorical Data Analysis  3 s.h.
Discrete distributions, contingency table analysis, odds ratios, relative risk, logistic regression, hierarchical models.
Prereq.: STAT 4817 or STAT 4844.
### STAT 5847  Nonparametric Statistics  3 s.h.
Nonparametric statistical inference including tests of hypotheses for one sample, two or more related independent samples, dependence, goodness-of-fit, trend, and related topics.
Prereq.: STAT 3717 or STAT 3743 or equivalent.

### STAT 5849  Multivariate Statistical Analysis  3 s.h.
The statistical analysis of multivariate observations. Topics include multivariate probability distribution theory, regression, analysis of variance, and techniques in data analysis.
Prereq.: MATH 3720 and STAT 4844 or equivalent.

### STAT 5857  Statistical Consulting  3 s.h.
The objective of this course is to cultivate the skills necessary to competently engage in statistical consulting. Topics include problem solving, study design, power and sample size, data management, selection and application of statistical methods, ethical practice, and effective visual and literal communication of results.
Prereq.: STAT 4817 or equivalent.

### STAT 5895  Special Topics in Statistics  2-3 s.h.
The study of a standard statistical topic in depth or the development of a special area of statistics. May be repeated twice.
Prereq.: STAT 3717 or STAT 3743.

### Placement and Pathways
The following documents are provided to clarify mathematics placement and when a placement exam is required.

#### Math Placement Guidelines

#### Flow Chart
ADA_Decision_Tool_for_Math_Registration_TW.pdf
(undergraduate/colleges-programs/college-science-technology-engineering-mathematics/department-mathematics-statistics/Decision_Tool_for_Math_Registration_-_Effective_Summer_2021_ADA.pdf)

### Bachelor of Science in Mathematics

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tr>
<th><strong>General Education Requirements</strong></th>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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</table>

<table>
<thead>
<tr>
<th>Mathematics Requirement (met with MATH in major)</th>
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<tbody>
<tr>
<td>Arts and Humanities (6 s.h.)</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
<td>7</td>
</tr>
<tr>
<td>Social Science (6 s.h.)</td>
<td>6</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
<td>6</td>
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</tbody>
</table>

### Core Courses
- Foreign Language 1550 4
- Foreign Language 2600 4
- MATH 1571 Calculus 1 4
- MATH 1572 Calculus 2 4
- MATH 2673 Calculus 3 4
- MATH 3715 Discrete Mathematics 3
- MATH 3720 Linear Algebra and Matrix Theory 3
- MATH 3721 Abstract Algebra 1 4
- MATH 3751 Real Analysis 1 4
- STAT 3743 Probability and Statistics 4
- CSIS 2610 Programming and Problem-Solving 4

Select one of the following:
- MATH 4896 Senior Undergraduate Research Project 2
- MATH 4897H Thesis
- STEM 4890 STEM Internship

Select two 3700-level MATH/STAT courses. 6
Select two 4800-level MATH/STAT courses. 6

Minor Courses:
- Select any discipline. 18
- Elective 2
- Select three upper division electives 9

**Total Semester Hours** 120-122

Suggested minors include biology, chemistry, computer science, economics, geology, physics, psychology, one engineering specialty (from chemical, civil, electrical, industrial, mechanical), or statistics. The total number of required semester hours of credit in mathematics (excluding statistics courses) for this track is 40.

### Year 1

#### Fall
- YSU 1500 Success Seminar 1
- MATH 1571 Calculus 1 4
- ENGL 1550 Writing 1 or ENGL 1549 Writing 1 with Support 3-4
- GER domain (AH) 3
- Foreign Language 1550 4
- Elective 1

**Semester Hours** 16-17

#### Spring
- MATH 1572 Calculus 2 (Prerequisite) 4
- CSIS 2610 Programming and Problem-Solving 4
- ENGL 1551 Writing 2 3
- Foreign Language 2600 4

**Semester Hours** 15

### Year 2

#### Fall
- MATH 2673 Calculus 3 (Prerequisite) 4
- MATH 3715 Discrete Mathematics (Prerequisite) 3
- Minor Course 3
- GER domain (NS with lab) 4
- GER domain (AH) 4

**Semester Hours** 17

#### Spring
- MATH 3720 Linear Algebra and Matrix Theory (Prerequisite) 3
Certificate in Data Analytics

Data analysis is an integral component in modern business decision-making processes. The certificate program offers students training in essential skills in data analytics. It comprises the following three courses:

1. Data Management
2. Data Visualization
3. Predictive Modeling

Students who successfully complete this program should be able to:

• manipulate and prepare a large data set for analysis through common techniques to clean data and identify trends and outliers;
• manage a large data set through database management and build an effective database application;
• describe and apply the common techniques used in data analytics and choose an appropriate technique to model and make predictions on a dataset.

Minor in Actuarial Science

If any of the above courses is part of the student’s major, it may be substituted by an upper-division STAT course or BUS 3700.

Minor in Biomathematics

Select one of the following:

BIOL 2601 & 2601L General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory
BIOL 2602 & 2602L General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory
BIOL 3711 or BIOL 3780/3780L Cell Biology: Fine Structure or General Ecology

Select at least 3 s.h. of upper-division biology courses.

MATH 1571 Calculus 1
MATH 1572 Calculus 2

STAT 3717 or STAT 3743 Statistical Methods or Probability and Statistics

Select one of the following:

MATH 2673 Calculus 3
MATH 3705 Differential Equations
MATH 3715 Discrete Mathematics
MATH 3720 Linear Algebra and Matrix Theory
MATH 3745 Topics in Mathematical Modeling
MATH/BIOL 4882 Mathematical Biology Research

Learning Outcomes

The student learning outcomes for a BS in mathematics are as follows:

• Students will develop and demonstrate the ability to reason mathematically by constructing mathematical proofs and recognizing and accurately analyzing numerical data in all core courses. Students will learn that truth in mathematics is verified by careful argument, and will demonstrate the ability to make conjectures and form hypotheses, test the accuracy of their work, and effectively solve problems.
• Students will learn to identify fundamental concepts of mathematics as applied to science and other areas of mathematics, and to interconnect the roles of pure and applied mathematics.
• Students will demonstrate that they can communicate mathematical ideas effectively by completing a senior capstone project involving an investigative mathematical project and presenting their findings and results in both a written format and as an oral presentation to faculty and other students.
Minor in Mathematics

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MATH 5860</td>
<td>Numerical Analysis 1</td>
<td></td>
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<tr>
<td>STAT 4817</td>
<td>Applied Statistics</td>
<td></td>
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<tr>
<td>STAT 4848</td>
<td>Applied Regression Time Series</td>
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Total Semester Hours 25-28

Minor in Data Analytics

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>Select at least 10 s.h. of MATH/STAT course work with MATH 1572 as a prerequisite, including at least 6 s.h. of course numbered above 3700.</td>
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<tr>
<td>Total Semester Hours 18</td>
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Option 2

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>MATH 1570</td>
<td>Applied Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2670</td>
<td>Applied Calculus 2</td>
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</table>

Select at least 9 s.h. of MATH/STAT course work with MATH 1572 as a prerequisite, including at least 6 s.h. of course numbered above 3700.

Total Semester Hours 18

Minor in Statistics

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>Select one of the following courses:</td>
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<td>Total Semester Hours 4-5</td>
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<td>MATH 1570</td>
<td>Applied Calculus 1</td>
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<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td></td>
</tr>
<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
<td>5</td>
</tr>
</tbody>
</table>

The following two statistics courses are required:

| STAT 3717 | Statistical Methods         | 7    |
| STAT 4843 | Probability and Statistics  | 7    |

Select an additional 9 s.h. of upper division STAT courses, excluding STAT 3717, 3743, and 4817.

Total Semester Hours 9

For equivalent courses, consult the Department of Mathematics and Statistics.

Students whose major degree programs require one or more of the required courses for the minor may substitute other upper-division statistics electives for those requirements. In particular, mathematics majors satisfy the requirements of the minor through at least 18 s.h. of required courses comprised of STAT 3743, STAT 4817, and 11 hours of STAT electives at the 4800-level or higher.

Department of Physics, Astronomy, Geology, and Environmental Sciences

Welcome

Welcome to the Department of Physics, Astronomy, Geology, and Environmental Sciences at YSU! We are proud of the unique opportunities we provide for our students. We are dedicated to the idea that students learn best by doing the activities considered to be the work of physicists, astronomers, geologists, and environmental scientists. Housed within our department is the Clarence R. Smith Mineral Museum, a world-class collection of rare and amazing minerals and fossils from around the world, and the Ward Beecher Planetarium sporting a 40-foot projection dome, a Chronos GOTO Star Projector, and a SciDome HB full-dome 4k digital projector. The planetarium and the museum are free and open to the public and are maintained and operated in part by students.

Our students also have access to state-of-the-art research equipment in our research labs and in the field. This equipment includes an atomic force microscope and an x-ray photoemission spectrometer for surface studies; a photolithography semiconductor mask aligner; a magnetron sputtering deposition system and a HeCd laser photoluminescence spectrometer for developing and testing new semiconductor materials and devices; and a...
Welcome
Welcome to the Geology and Environmental Science program at Youngstown State University. Our programs in Environmental Science and Geology are distinguished by our applied approach to learning. Our dedicated faculty consists of five PhD degree professors and thirteen adjunct faculty members with strong backgrounds in academics and real world experience. Our courses and degree programs prepare graduates for immediate employment and graduate studies opportunities by going well beyond the traditional class room experiences with a variety of field experiences, study abroad experiences, access to high-end analytical laboratories and instrumentation, internship opportunities and faculty-led undergraduate research experiences. Our laboratory facility instruments include plasma spectrophotometry, ion chromatography, gas chromatography, laser particle size analysis and a wide variety of bench-top instrumentation. In addition, students have access to TEM, SEM, XRF, XRD and other high-end instrumentation through the Department of Chemical and Biological Sciences.

The program has a strong emphasis on remote sensing and geophysical investigations. Field instruments include a DJI Matrice 600 drone with infra-red and optical imaging capability, ground penetrating radar, hand held x-ray fluorescence, 24 channel refraction seismograph, earth resistivity, proton magnetometer, high resolution GPS and total station surveying equipment.

Graduates of our programs find personally rewarding and high-paying careers in the fields of petroleum geology, environmental geology, public health, engineering geology, government regulations and compliance, mining, hydrogeology, environmental safety, geophysics and related fields. Many graduates choose to continue their education by pursuing master of science and doctoral degrees in geology and environmental science.

The Geological and Environmental Sciences program is also the home of the Clarence R. Smith Mineral Museum, a world-class collection of rare and amazing minerals and fossils from around the world. The museum is free and open to the public.

For more information, visit the Department of Physics, Astronomy, Geology, and Environmental Sciences.

Program Directors / Coordinators
- Geology Undergraduate Program Coordinator: Dr. Jeff Dick (Email: jcdick@ysu.edu) (330) 941-1756
- Environmental Science Undergraduate Program Coordinator: Dr. Felicia Armstrong (Email: fparmstrong@ysu.edu) (330) 941-1385
- Environmental Science Graduate Program Director: Dr. Jeff Dick (Email: jcdick@ysu.edu) (330) 941-1756

Professor
Isam E. Amin, Ph.D., Professor
Felicia P. Armstrong, Ph.D., Associate Professor
Jeffrey C. Dick, Ph.D., Professor
Alan M. Jacobs, Ph.D., Professor
Colleen McLean, Ph.D., Associate Professor

Part-Time Faculty
Diana M. Alexander, M.S.
Rebecca Baxter, M.S.
Susie L. Beiersdorfer, M.S.
Breanna Beaver, M.S.

Anna C. Woodard (Draa), M.S.
GEOL 1500  Environmental Geology  4 s.h.
An introductory course that examines interactions between human society and our changing planet, the effects of natural/geologic hazards on humans, and anthropogenic (human-caused) impacts on nature, geology, and society. Three hours of lecture and two hours lab per week.
Gen Ed: Environmental Sustainability, Natural Science, Social and Personal Awareness.

GEOL 1503  Rock Studio: Understanding Geology Through Lapidary Experiences  4 s.h.
A discussion and studio-based course designed to develop an understanding and appreciation of earth history, earth physical processes and the formation of rocks and minerals through combined class discussions and creative studio-based discovery experiences. Students learn fundamentals of geology and reinforce their understanding by creating interesting objects and artistic pieces from rocks, minerals and earth materials using a variety of cutting, polishing and basic lapidary equipment. Approximately 3 hrs lecture and 2 hours lab weekly over the course of the term.
Gen Ed: Natural Science.

GEOL 1504  The Dynamic Earth  3 s.h.
An examination of earth as consisting of interrelated geologic systems which are dynamic and constantly changing. Includes study of surface, lithologic and tectonic systems.
Gen Ed: Natural Science.

GEOL 1505  Physical Geology  4 s.h.
A study of the various physical and chemical processes acting on and within the earth, and their products within the context of plate tectonics and their relevance to humans and modern society. The laboratory component includes identification of minerals and rocks, and the interpretation of topographic and geologic maps. Three hours of lecture, two hours of lab per week.
Gen Ed: Natural Science.

GEOL 1505L  Physical Geology Laboratory  0 s.h.
Physical Geology Laboratory.

GEOL 1508  Geology of Gemstones and Allied Minerals  3 s.h.
Formation, occurrence, and distribution of gem materials. Properties and identification of gem stones; factors affecting their value. Introduction to synthetic/artificial gem materials. Not applicable toward the geology major.

GEOL 1509L  Geoscience Laboratory  1 s.h.
Problem solving and assessment of case histories to illustrate the scientific method and geologic principles and concepts. Two hours laboratory per week.

GEOL 1510  Geology of National Parks  3 s.h.
Geologic history of national parks; geologic processes observed in North American parks and Hawaii. Simulated field trips to several major parks. Not applicable toward the geology major.

GEOL 2600  Geology in the Field  1 s.h.
An experiential field-based course designed to expose students to a variety of geological sites and development projects. Two full day field trips with class room preparation are required.
Prereq.: GEOL 1505 or GEOL 1505H.

GEOL 2602  Introduction to Oceanography  3 s.h.
Survey of geological, physical, chemical, and biological oceanography; description and distribution of properties and their relationship to circulation, shorelines, ocean features, sediments, organisms, and environments.
Gen Ed: Natural Science.

GEOL 2605  Historical Geology  4 s.h.
An in depth study of the origin and evolution of the Earth and its systems and life forms throughout geologic time. The course is designed to develop student critical thinking skills through analysis of concepts and issues, and the integration of maps, lithologic information, and fossil information. Three hours lecture and two hours lab per week. Field trips are an integral part of the course.
Prereq.: GEOL 1505 and GEOL 1505L.

GEOL 2611  Geology for Engineers  3 s.h.
Study of geologic principles, processes, and materials; focus on recognition of geologic factors as they apply to engineering operations and projects. Laboratory work includes examination of minerals, rocks, maps, and case histories. Two hours lecture, two hours laboratory per week.
Gen Ed: Natural Science.

GEOL 2614  Mesozoic Dinosaurs and Other Reptiles  3 s.h.
A survey of major Mesozoic dinosaurs and reptiles, including discussion of their environment, organic evolution, diversity, and controversies pertaining to their classification and extinction.
Prereq.: GEOL 3713.

GEOL 2620  Intro to Natural Gas and Water Resources  3 s.h.
A survey of the history, science and technology of oil and gas exploration and production and water resource related issues with an emphasis on non-conventional production in the Appalachian Basin.
Prereq.: MATH 1513, CHEM 1516 and CHEM 1516L.

GEOL 2699  Individual Study  1-3 s.h.
The introductory study of problems or issues in geology, or a review of literature relating to a specific geologic topic. A maximum of 3 s.h. may be taken.
Prereq.: 8 s.h. in Geology, consent of department chairperson and instructor.

GEOL 3700  Mineralogy  4 s.h.
The occurrence, composition, and crystallography of common and economically important minerals. Identification of minerals using physical, chemical, optical and x-ray properties. The theory and use of the polarizing microscope and its application to the study of crystalline material, including asbestos materials. Two hours lecture, four hours of lab per week.
Prereq.: CHEM 1515 (may be concurrent) and GEOL 2605.

GEOL 3701  Geomorphology  3 s.h.
A study of landforms and the processes which create them, using aerial photographs, geologic maps, and topographic maps. The laboratory work emphasizes recognition and interpretation of landforms. Two hours lecture, two hours laboratory per week.
Prereq.: GEOL 2605.
 GEOL 3702  Glacial Geology  3 s.h.
A study of glacier types: their origin, movement, erosional/depositional contributions, and their relationship to various non-glacial features. Emphasis is on the Pleistocene glacial succession in North America. Field trips are an integral part of the course.
Prereq.: GEOL 2605.

 GEOL 3703  Geological Field Methods  2 s.h.
An experiential lecture and field-based course designed to expose students to sites of geological significance and to learn basic field geology methods including data collection, field notebooks, geological feature measurements, and precision surveying methods. The course requires two different two-day field trips with scheduled class meetings to prepare students for the field experiences.
Prereq.: GEOL 2605.

 GEOL 3704  Structural Geology  2 s.h.
Description and interpretation of geologic structures, mechanical properties; stress-strain relationships, regional structure of North America, and major tectonic theories. Geology majors must take GEOL 3704L concurrently with GEOL 3704.
Prereq.: GEOL 3701 and GEOL 3718.

 GEOL 3704L  Structural Geology Laboratory  1 s.h.
Structural geology techniques and analyses, including orthogonal solutions, stereographic projections, and interpretation of maps. Two hours lab per week.
Prereq. or concurrent: GEOL 3704.

 GEOL 3705  Structures and Landscapes  4 s.h.
A study of earth surface features and their relationship to rock structure. One or more required field trips. Three hours lecture and three hours lab per week.
Prereq.: GEOL 3700.

 GEOL 3706  Geology of Economic Mineral Deposits  3 s.h.
A study of the occurrence, origin, and distribution of mineral deposits, with special attention to their economic use. Field trips are mandatory.
Prereq.: GEOL 3700.

 GEOL 3708  Geological Field Methods  2 s.h.
A course designed to develop skills and confidence in field-based sampling, data collection and analysis of results. Two one to two day field trips are required.
Prereq.: GEOL 2600 and 3718 or permission of instructor.

 GEOL 3709  Subsurface Investigations  3 s.h.
An introduction to subsurface investigative methods that integrate principles of geophysics, geochemistry, interpretation of well logs and other bore hole data, outcrops and published information in the solution of actual geological problems. Two hours lecture, two hours lab per week. Students are expected to perform field work in addition to regularly scheduled class time.
Prereq.: GEOL 3701; MATH 1571 recommended.

 GEOL 3710  Petroleum Geology of the Appalachian Basin  3 s.h.
A survey of the history, science and technology of oil and gas exploration and production within the Appalachian Basin of North America. Course content will focus on conventional and non-conventional exploration and production history, methods, technologies and production. Three hours lecture per week. Field trip mandatory.
Prereq.: GEOL 2605 or permission of instructor.

 GEOL 3711  Mineralogy  3 s.h.
Advanced study of the occurrence, classification and processes that lead to the formation of minerals and the rocks and materials in which they occur. Emphasis is placed on the study of rock-forming minerals using physical, chemical and optical properties. Field trip required. Two hours lecture and two hours lab per week.
Prereq.: CHEM 1515 and CHEM 1515L (may be concurrent) and GEOL 2605.

 GEOL 3714  Principles of Paleontology  3 s.h.
A detailed study of fossil invertebrates, including their origin, classification, paleoecology and stratigraphic utilization. Two hours lecture and two hours lab per week.
Prereq.: GEOL 2605.

 GEOL 3716  Environmental Impact of Abandoned Mines  3 s.h.
Mining methods, types of mines, information retrieval, mine stabilization, and the effects of abandoned mines on environmental and human activities, especially of deep coal mines in the Mahoning valley and adjacent areas. Two hours lecture and two hours lab per week.
Prereq.: GEOL 2605.

 GEOL 3717  Petrology  3 s.h.
A modern approach to understanding rocks within the context of plate tectonics and the use of rocks and minerals as natural resources in support of modern society. Emphasis is placed on investigating the formation, occurrence and classification of igneous, sedimentary and metamorphic rocks using physical, chemical and optical properties. Field Trip Required. Two hours lecture and two hours lab per week. Prereq.: GEOL 3711 and CHEM 1516/1516L may be taken concurrently.

 GEOL 3718  Igneous and Metamorphic Petrology  4 s.h.
An in-depth study of the petrogenesis of igneous and metamorphic rocks based on their chemical and petrographic characteristics. Three hours lecture, three hours lab per week.
Prereq.: GEOL 3700.

 GEOL 3720  Field Investigations in Geology  1-4 s.h.
A field-based approach to the study of geologic concepts and problems. Class and travel supervised by the Geology faculty; location, duration of stay, hours, credit, and grading criteria dependent on the site and nature of the geologic concepts and problems investigated. The course may be repeated. A maximum of 4 s.h. may be applied toward Geology major requirements.
Prereq.: By permit only.

 GEOL 3750  Geoscience Seminar  1 s.h.
Guest lecture and student presentation forum course designed to provide students with exposure to a broad range of topics and current research relevant to the geosciences. Course may be repeated.
Prereq.: GEOL 1505.

 GEOL 3755  Geological Research Methods and Data Analysis  3 s.h.
This course introduces students to the design and execution project phases applied in the solution of real world geological problems. Emphasis is placed on the recognition of geological problems, the design and execution of research plans and experience with solution-based software commonly used in research and professional practice. Students are required to complete a geological research problem, submit a formal write up and provide an oral and/or poster presentation.
Prereq.: GEOL 3717.

 GEOL 3775  Research Methods for Undergraduates  1 s.h.
This course introduces the student to the fundamental and practical aspects of conducting research. The course emphasizes the scientific method, research methodologies, literature review, writing research proposals, and how research results are presented. Learn the process of developing, funding and conducting research. This course must be taken prior to any undergraduate research.
Prereq.: junior or senior standing.

 GEOL 4804  Ground Water  3 s.h.
A study of the geologic and hydrologic factors controlling the occurrence and behavior of water beneath the earth’s surface. Two hours lecture, two hours lab per week.
Prereq.: GEOL 2605; MATH 1571 recommended.

 GEOL 4806  Engineering Geology  3 s.h.
An introduction to the concepts of engineering geology with an emphasis on the relationship between geologic materials, construction of infrastructure and environmental issues. Topics include case studies that involve rock mass classification, soil classification, and material properties including strength, soil phase relationships, soil consolidation. Required field trip. Three hours lecture.
Prereq.: GEOL 2605 and MATH 1510/1510C and MATH 1511/1511C or permission of instructor.
GEOL 4812 GIS Applications to Geology 3 s.h.
This course covers a variety of geologic applications of GIS software; topics covered include: flood mapping, landslide hazard mapping, modeling soil erosion, watershed delineation, etc. Although you will be exposed to the basic functions of ArcGIS, the course is designed primarily to provide experience in obtaining, managing, interpreting, displaying, and presenting geo-spatial data in a meaningful context.
Prereq.: GEOL 3701, GEG 2611.

GEOL 4820 Water Pollution Control 3 s.h.
Sources and prevention methods of water pollution, human activities and natural conditions that influence water quality, protection methods and regulations of water quality, contamination and remediation of groundwater.
Prereq.: GEOL 1505 or ENST 2600.

GEOL 4824 Tectonics 3 s.h.
Geodynamics and the workings of plate tectonics. Kinetics and dynamics of plate motion, plate driving forces, thermal structure of the earth, and thermal convection in the earth. Tectonic and structural features on the earth. Geophysical, stratigraphic and structural signatures of extensional rifting, strike-slip faulting, subduction zones, plate collisions and mountain belts.
Prereq.: GEOL 3704.

GEOL 4825 Geophysical Well Log Analysis 3 s.h.
An introduction to geophysical well logging, analysis, and interpretation applications in the oil and gas industry. Topics include well construction, drilling mud properties, and interpretation of gamma ray, SP, resistivity, sonic, neutron density, and cement bond logs.
Prereq.: GEOL 2620 or permission of instructor, GEOL 3704, PHYS 1502 or PHYS 2611 recommended.

GEOL 4830 Senior Thesis 4 s.h.
Designed to be completed during the student's senior year and is expected to be a significant research-based contribution to the geosciences. A typical senior thesis topic will support the research program of full-time GES faculty. Students may develop their own research topic provided they have the support of one or more full-time GES faculty.
Prereq.: Junior standing, minimum cumulative GPA of 3.0, submission of approved research proposal, permission of GES Chairperson.

GEOL 4899 Special Topics 1-3 s.h.
Selected aspects of geology not covered in existing courses. Topics to be announced each time course is offered. May be repeated for different topics.
Prereq.: appropriate 3700- or 4800- geology course and permission of the chairperson.

GEOL 5802 Sedimentology and Stratigraphy 3 s.h.
The study and interpretation of sedimentary rocks, including physical characteristics, petrography, depositional environments, principles of correlation, and principles of basin analysis. Two hours lecture, two hours lab per week.
Prereq.: GEOL 3704.
Gen Ed: Capstone.

GEOL 5805 Special Problems in Geology 1-4 s.h.
An in-depth study of a specific problem in one of the branches of geology. The problem depends on the student’s interest and qualifications and the equipment availability. A minimum of 8 s.h. may be taken.
Prereq.: 8 s.h. in Geology, consent of the department chairperson and instructor.

GEOL 5810 Groundwater Resource Evaluation 3 s.h.
Geologic and hydrologic interpretation of groundwater data with emphasis on regional groundwater resources, groundwater management, groundwater supplies, and design and construction of water wells.
Prereq.: GEOL 2605 or permission of instructor.

GEOL 5815 Geology and the Environment 2 3 s.h.
In-depth examination of earth processes, earth resources, and properties of earth materials as they relate to human activities, and their geologic consequences.
Prereq.: GEOL 2615 or ENST 2600.

GEOL 5817 Environmental Geochemistry 3 s.h.
An application of low-temperature aqueous geochemistry and geochemical computer modeling to environmental problems such as acid mine drainage, geochemical cycling of trace elements and nutrients, hazardous waste remediation, nuclear waste disposal, and surface and ground-water contamination.
Prereq.: GEOL 3700 and CHEM 1516.

Environmental Studies

ENST 1500 Introduction to Environmental Science 3 s.h.
Basic environmental science literacy for informed citizens as inhabitants and stewards of Earth. The use of science and the scientific method to understand, assess, and manage the environment to improve human health, conserve energy and resources, preserve nature, and sustain quality of life.
Gen Ed: Environmental Sustainability, Natural Science, Social and Personal Awareness.

ENST 1500L Introduction to Environmental Science Lab 1 s.h.
The use of the scientific method to explore various fields in environmental science including water quality, risk assessment, biodiversity and mineral uses. This field and laboratory work supplements ENST 1500.
Prereq. or concurrent: ENST 1500.

ENST 2600 Foundations of Environmental Studies 3 s.h.
A survey of the principles and issues of environmental studies including basic ecology, biodiversity, hazardous and solid waste management, sustainable development, energy production and conservation, environmental ethics, air, water and soil pollution.

ENST 2600L Foundations of Environmental Studies Laboratory 1 s.h.
Laboratory and field investigations identified in ENST 2600. Emphasis on the scientific method, problem solving and critical thinking skills in environmental assessment techniques, active exploration of environmental concerns and their solutions. Three hours per week. Three to five Saturday field trips required in lieu of some laboratory time.

ENST 2650 Independent Study 1-3 s.h.
The introductory study of problems or issues in Environmental Studies or a review of the literature relating to a specific environmental topic. May be repeated for different topics for a total of 6 s.h.
Prereq.: Permission of the director.

ENST 3700 Environmental Chemistry 4 s.h.
Study of the fundamental chemical principles underlying common environmental problems, including water pollution, toxicology, chemical biotransformation and degradation. Chemistry of pesticides, petroleum hydrocarbons and heavy metals are also investigated. Taken with ENST 3700L.
Prereq.: ENST 2600 and CHEM 1515.

ENST 3700L Environmental Chemistry Lab 0 s.h.
Students will investigate various analytical and instrumental techniques used in the examination of chemicals in environmental media (soil, water, biota). Includes proper handling, storage and precautions in the laboratory and the environment. Taken with ENST 3700.

ENST 3730 Air Quality 3 s.h.
Sources, dispersions, consequences and abatement of air pollutants emanating from industry and transportation. Topics also include the history, legislation, standards and economics of air pollution.
Prereq.: CHEM 1515.

ENST 3750 Seminar 1 s.h.
Guest lecturers will examine current topics in environmental issues, including current research, application of technology, management strategies to reduce environmental impact, environmental ethics, policy, etc.
Prereq.: ENST 2600.
ENST 3751 Water Quality Analysis 3 s.h.
Introduction to physical, chemical, and biological measurements of water quality. Sample collection and laboratory analysis of natural waters, drinking water, and wastewater. Interpretation of environmental data. Two hours lecture and three hours laboratory per week. Identical to CEEN 3751.
Prereq.: CEEN 3736 OR ENST 2600; CHEM 1515.

ENST 3751L Water Quality Analysis Lab 0 s.h.
Laboratory experience in the analysis of natural waters, drinking water and wastewater. Emphasizes procedures for the collection and interpretation of data on current environmental problems. Three hours laboratory per week. Must be taken concurrently with ENST 3751. Identical to ENST 3751L.
Prereq.: Must be taken concurrently with ENST 3751 (Note: already in course description).

ENST 3752 Soil Quality and Analysis 3 s.h.
Soil is an important environmental medium that must be analyzed to assess environmental quality. Students develop the ability to conduct laboratory experiments and to critically analyze and interpret soil data. Furthermore, this course contributes to the background knowledge students need to assess environmental impact and risk, sustainability, health and safety.
Prereq.: CHEM 1515 and CHEM 1515L or equivalent.

ENST 3775 Research Methods for Undergraduate 1 s.h.
This course introduces the student to the fundamental and practical aspects of conducting research. The course emphasizes the scientific method, research methodologies, literature review, writing research proposals and the presentation of research results. Students will gain valuable experience in identifying a problem, developing a research plan and summarizing results. This course must be taken prior to engaging in undergraduate research.
Prereq.: Junior or senior standing.

ENST 3780 Environmental Research 1-4 s.h.
A research project that involves problem identification, hypothesis formation, experimentation, data analysis and interpretation. The research may be either basic or applied.
Prereq.: Junior standing in ENST and permission of the director.

ENST 3781 Environmental Sampling Methods 3 s.h.
Sampling design, including number and types of samples and procedures for taking representative samples of air, water, soil and contents of storage and shipping containers. Two hours of lecture, three hours of laboratory.
Prereq.: ENST 2600 and STAT 2601 or equivalent.

ENST 3784 Research Experience in Environmental Science 4 s.h.
This capstone course will give student the experience in the planning and execution of a research project. Graduate schools and research establishments consider an undergraduate student research experience as extremely valuable. Research provides students with an opportunity to work with faculty and graduate students on more advance research topics. Research furthers our knowledge of basic environmental science and helps us find solutions to environmental problems. The process improves student skills in gathering data, brainstorming ideas, evaluating data, and discussing the results to others through written and oral presentations. Environmental research can be focused on fieldwork, computer simulation, or laboratory analysis.
Prereq.: Senior standing, Environmental Science major, ENST 3751 or ENST 3752.

ENST 3790 Internship/Cooperative 1-4 s.h.
Students work under the direction of a faculty supervisor in a governmental agency or in the private sector as environmental specialists. An activities log and summary report are required. The course may be repeated.
Prereq.: Junior standing in ENST and permission of the director.

ENST 4822 Water Pollution Control 3 s.h.
Sources and prevention methods of water pollution, human activities and natural conditions that influence water quality, protection methods and regulations of water quality, contamination and remediation of groundwater. 3 s.h.
Prereq.: GEOL 1505 or ENST 2600.

ENST 4840 Topics 1-3 s.h.
Independent study of special topics not included in available courses. Students do extensive reading in, and write a formal report on, a specific area of Environmental Studies.
Prereq.: Junior standing or consent of instructor.

ENST 5800 Environmental Impact Assessment 3 s.h.
Analysis of the potential environmental effects resulting from the construction of buildings, highways, parking lots, mines, reservoirs, and waste disposal facilities. Standard procedures are taught for evaluating and reporting the environmental impact of these activities.
Prereq.: ENST 5860 and senior standing.

ENST 5810 Environmental Safety 3 s.h.
The proper use of environmental monitoring instruments and personal protective gear. Participation in a series of realistic, hands-on simulation exercises that address a variety of waste clean-up situations. Topics include chemical and physical hazards of chemical compounds and toxicology and adverse effects of chemical exposure. Class meets three hours per week. Successful completion of the course earns OSHA Hazwoper 40 hour training certificate.
Prereq.: ENST 2600, equivalent experience or permission of instructor.

ENST 5820 Sustainability, Climate Change, and Society 3 s.h.
This course explores environmental, economic, and social aspects of sustainable development, with an emphasis on economy and society. Through topics such as water, food, and climate change, we examine the role of humans and institutions in sustainable development and possibilities for reconfiguring relationships between our institutions and the natural world.
Prereq.: junior, senior or graduate level standing.

ENST 5830 Toxicology and Risk Assessment 3 s.h.
A study of environmental toxicology of chemicals, primarily anthropogenic pollutants, and their effect on humans and ecosystems. Includes transportation of pollutants in the environment, biochemical reactions, toxicity testing methods, and dose-response assessment. Continues with an introduction in the process of estimating risk and the perception of those risks including how risk is used to set environmental standards.
Prereq.: ENST 1516 and 9 sh >3700 in ENST, CHEM, BIOL, GEOL or CEEN, junior, senior or graduate standing.

ENST 5860 Environmental Regulations 3 s.h.
An examination of federal and state regulations that relate to cleanup of abandoned waste sites, management of waste from current waste generators, development of new hazardous products and chemicals, safety and health issues, and control of pollution into air and water.
Prereq.: ENST 2600 or equivalent.

Bachelor of Science in Environmental Science

The environmental studies program leading to a Bachelor of Science (BS) degree will prepare students to enter the job market as environmental specialists or to continue in their education in a graduate program. Students in environmental science will complete:

- 36-39 s.h. of environmental studies courses
- 30-31 s.h. of support courses in science and mathematics
- a prescribed minor of 18 s.h.

The minor must include 9 s.h. of upper division courses (3000 level and above) and may be in:

- biology or biomathematics
- chemistry
- economics
- environmental geography
- environmental health and safety
- geographic information science
- geoscience or environmental geology
- mathematics or statistics
- mechanical engineering
- public health

Credits may include those required for support science and mathematics, as applicable. The minor must be approved by the University. The student is welcome to take additional courses in other departments as electives. One writing intensive, oral intensive, study. College and university requirements apply (total hours, upper division hours, general education goals, etc.). One writing intensive, oral intensive, critical thinking intensive, and capstone course can be satisfied within this program.

Majors transferring in from other programs at YSU or from other universities may use up free electives and/or require additional semesters or summers of study. College and university requirements apply (total hours, upper division hours, general education goals, etc.). One writing intensive, oral intensive, critical thinking intensive, and capstone course can be satisfied within this program.

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td>General Education Requirements</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>Mathematics Requirement (met with MATH in major)</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<td>Requirement met through science courses in major</td>
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<td>Social and Personal Awareness (6 s.h.)</td>
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<td>Core Requirements</td>
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<tr>
<td>ENST 2600</td>
<td>Foundations of Environmental Studies</td>
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<td>and Foundations of Environmental Studies Laboratory</td>
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<td>ENST 3700</td>
<td>Environmental Chemistry</td>
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<td>&amp; 3700L</td>
<td>and Environmental Chemistry Lab</td>
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<td>ENST 3730</td>
<td>Air Quality</td>
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<td>Water Quality Analysis</td>
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<td>or ENST 3752</td>
<td>Soil Quality and Analysis</td>
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<td>ENST 3780</td>
<td>Environmental Research</td>
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<td>or ENST 3784</td>
<td>Research Experience in Environmental Science</td>
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<td>ENST 3790</td>
<td>Internship/Cooperative</td>
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<td>ENST 5810</td>
<td>Environmental Safety</td>
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<td>Core Options, select 1</td>
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<td>ENST 4822</td>
<td>Water Pollution Control</td>
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<tr>
<td>or ENST 5800</td>
<td>Environmental Impact Assessment</td>
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<td>or ENST 5830</td>
<td>Toxicology and Risk Assessment</td>
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<td>GEOL 5817</td>
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<td>BIOL 3780</td>
<td>General Ecology</td>
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<td>GEOL 5815</td>
<td>Geology and the Environment 2</td>
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<tr>
<td>GEOG 3703</td>
<td>Human Impacts on the Environment</td>
<td>3</td>
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<td>CEEN 3717</td>
<td>Hydraulic Design</td>
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<td>CHEM 1515 &amp; 1515L</td>
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<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory</td>
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<td>or MATH 1570</td>
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<td>GEG 2611</td>
<td>Geospatial Foundations</td>
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<td>Introductory Statistics</td>
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<td>or STAT 2625</td>
<td>Statistical Literacy and Critical Reasoning</td>
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<td>or STAT 3717</td>
<td>Statistical Methods</td>
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<td>or STAT 3743</td>
<td>Probability and Statistics</td>
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<td>PHYS 1501</td>
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<td>or PHYS 2610</td>
<td>General Physics 1</td>
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<td>Select 17 s.h. from approved minors; 1/3 must be at the 3700 level or higher</td>
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<td>1</td>
<td>Satisfies General Education Science or Science Lab Domain.</td>
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<td>2</td>
<td>Satisfies General Education Mathematics Domain.</td>
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<td>3</td>
<td>Satisfies General Education Science Domain.</td>
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<td>YSU 1500</td>
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<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory (R, NS)</td>
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### Bachelor of Arts in Geology

The Bachelor of Arts in Geology prepares students for entry-level employment within the wide-ranging fields of geology. The dominant fields of geological employment include:

- Environmental geology
- Construction
- Petroleum geology
- Water resources
- Mining
- Hydrogeology
- Government regulations and compliance
- Pipeline construction

The Bachelor of Arts in Geology degree program can be completed in eight semesters if students average sixteen hours of coursework per semester.

For more information, visit the Department of Physics, Astronomy, Geology, and Environmental Sciences.

The Bachelor of Arts degree requires the successful completion of a minimum of 72 s.h. of core and elective courses.

#### COURSE | TITLE | S.H.
--- | --- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar | 1
or HONR 1500 | Intro to Honors | 1

#### General Education Requirements

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1. Elective support courses, select two of the following: PHYS 1501 Fundamentals of Physics 1, GEOG 2630 Weather, or STAT 2601 Introductory Statistics or STAT 3717 Statistical Methods.

Request a Graduation Evaluation after completing 80-85 s.h. from the STEM Advising Center, 2325 Moser Hall, (330) 941-2512.

### Learning Outcomes

The student learning outcomes for the BS in environmental science are as follows:

- Communicate effectively using the language, concepts, and models of environmental science in written, visual, and numerical formats.
- Properly apply the scientific method to research an environmental problem and formulate conclusions.

- Demonstrate ability to apply appropriate field- and laboratory-based methods (of acquiring, quantitatively and qualitatively analyzing and interpreting environmental data and information).
- Demonstrate understanding of pollution sources, pollution prevention strategies, and waste management.
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### Electives

#### Science Electives I:
Select a minimum of 21 s.h. from the following:

- ASTR 2609  Moon and Planets
- BIOL 2601 & 2601L  General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory
- BIOL 2602 & 2602L  General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory
- CHEM 1515 & 1515L  General Chemistry 1 and General Chemistry 1 Laboratory
- CHEM 1516 & 1516L  General Chemistry 2 and General Chemistry 2 Laboratory
- GEOL 2630  Weather
- MATH 2670  Applied Calculus 2
- PHYS 1501 & 1501L  Fundamentals of Physics 1 and Fundamentals of Physics Laboratory 1
- PHYS 1502 & 1502L  Fundamentals of Physics 2 and Fundamentals of Physics Laboratory 2
- STAT 3717  Statistical Methods

#### Science Electives II:
Select a minimum of 20 s.h. from the following:

- ENST 3700 & 3700L  Environmental Chemistry and Environmental Chemistry Lab
- GEOL 3700  Mineralogy
- MATH 1570  Applied Calculus 1
- ENST 2600 & 2600L  Foundations of Environmental Studies and Foundations of Environmental Studies Laboratory
- GEOL 3750  Geoscience Seminar (Optional)
- ENST 3780  Environmental Safety
- GEOL 4802  Tectonics
- GEOL 4825  Geophysical Well Log Analysis
- GEOL 4899  Special Topics
- GEOL 48XX  Geology Field Camp (4 s.h. minimum)
- GEOL 5805  Special Problems in Geology
- ENST 5810  Environmental Safety
- GEOL 5810  Groundwater Resource Evaluation
- GEOL 5815  Geology and the Environment 2
- GEOL 5817  Environmental Geochemistry
- ENST 5860  Environmental Regulations

### Total Prescribed Semester Hours: 108-111 s.h.

### Year 1

#### Fall

- YSU 1500  Success Seminar
- GEOL 1505 & 1505L  Physical Geology and Physical Geology Laboratory
- ENGL 1550 or ENGL 1549  Writing 1 or Writing 1 with Support
- CHEM 1515 & 1515L  General Chemistry 1 and General Chemistry 1 Laboratory

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### Year 2

#### Fall

- GEOL 3700  Mineralogy
- MATH 1570  Applied Calculus 1
- ENST 2600 & 2600L  Foundations of Environmental Studies and Foundations of Environmental Studies Laboratory
- GEOL 3750  Geoscience Seminar (Optional)

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#### Spring

- GEOL 3718  Igneous and Metamorphic Petrology
- Science Elective II
- CMST 1545  Communication Foundations
- Science Elective II
- Science Elective II

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### Year 3

#### Fall

- GEOL 3701  Geomorphology
- FNLG 1550  Elementary Foreign Language
- GER Social Science Elective
- GEOL/ENST 3700+ Science Elective II
- GEOL 3750  Geoscience Seminar (Optional)

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#### Spring

- GEOL 3704  Structural Geology and Structural Geology Laboratory
- FNLS 2600  Intermediate Foreign Language
- GER Arts and Humanities
- GEOL/ENST Science Elective II
- ENST 5810  Environmental Safety

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### Year 4

#### Fall

- GEOL 3750  Geoscience Seminar (Optional)
- GER Social Personal Awareness
- GEOL/ENST 3700+ Science Elective II
- GEOL/ENST 3700+ Science Elective II
- Elective Course

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#### Spring

- GEOL 5802  Sedimentology and Stratigraphy (Capstone Course)
- Science Elective I
- GEOL/ENST 3700+ Science Elective II

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Bachelor of Science in Geology

PHIL 2631  Environmental Ethics (GER Social and Personal Awareness)  3
Elective Course  3

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Request a Graduation Evaluation after completing 80-85 s.h. from the STEM Advising Center, 2325 Moser Hall, (330) 941-2512.

### Year 1

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#### Spring

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| Semester Hours | 15 |

Request a Graduation Evaluation after completing 80-85 s.h. from the STEM Advising Center, 2325 Moser Hall, (330) 941-2512.

**Bachelor of Science in Geology**

Geology exists as a science to satisfy the needs of modern society for earth’s abundant natural resources and to ensure sustainable practices for future generations. The Department of Geological and Environmental Sciences offers two different geology degrees; the Bachelor of Arts and the Bachelor of Science. Both programs prepare graduates for employment, however the Bachelor of Science is considered the flagship degree as its more rigorous curriculum provides significant employment advantages and prepares graduates for admission to Master of Science and Doctor of Philosophy (PhD) programs. The dominant fields of employment include:

- Engineering geology
- Water resources
- Construction
- Hydrogeology
- Petroleum geology
- Environmental geology
- Geophysics
- Mining
- Government regulation and compliance work
- Employment related to the energy industry

The Bachelor of Arts and the Bachelor of Science degrees in Geology can be completed in eight semesters if students average 16 hours of coursework per semester.

For more information, visit the Department of Geological and Environmental Sciences (https://catalog.ysu.edu/undergraduate/colleges-programs/college-science-technology-engineering-mathematics/department-geological-environmental-sciences/)

The Bachelor of Science in Applied Geology degree requires the successful completion of a minimum of 91 s.h. of core and elective courses. These courses include a Geology capstone experience of Geology Field Camp which is normally completed during summer following the junior year. Alternatively,
students may opt for an internship (STEM 4890 STEM Internship) experience or a Senior Thesis research experience (GEOL 4830 Senior Thesis).

### COURSE TITLE S.H.

<table>
<thead>
<tr>
<th>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500 Success Seminar 1-2</td>
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</tr>
<tr>
<td>or SS 1500 Strong Start Success Seminar</td>
<td></td>
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<tr>
<td>or HONR 1500 Intro to Honors</td>
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</table>

### General Education Requirements

<table>
<thead>
<tr>
<th>ENGL 1550 Writing 1 3-4</th>
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<tbody>
<tr>
<td>or ENGL 1549 Writing 1 with Support</td>
</tr>
<tr>
<td>CMST 1545 Communication Foundations 3</td>
</tr>
<tr>
<td>Mathematics Requirement (met with MATH in major)</td>
</tr>
<tr>
<td>Arts and Humanities (6 s.h.) 6</td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) Met with courses in the major</td>
</tr>
<tr>
<td>Social Science (6 s.h.) 6</td>
</tr>
<tr>
<td>Social and Personal Awareness (6 s.h.) 6</td>
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### Major Requirements

<table>
<thead>
<tr>
<th>GEOL 1505 Physical Geology 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 2600 Foundations of Environmental Studies 4</td>
</tr>
<tr>
<td>&amp; 2600L and Foundations of Environmental Studies Laboratory</td>
</tr>
<tr>
<td>GEOL 2605 Historical Geology 4</td>
</tr>
<tr>
<td>GEOL 2600 Geology in the Field 1</td>
</tr>
<tr>
<td>GEOG 2611 Geospatial Foundations 3</td>
</tr>
<tr>
<td>GEOL 3711 Mineralogy 3</td>
</tr>
<tr>
<td>GEOL 3717 Petrology 3</td>
</tr>
<tr>
<td>GEOL 3705 Structures and Landscapes 4</td>
</tr>
<tr>
<td>GEOL 3708 Geological Field Methods 2</td>
</tr>
<tr>
<td>GEOL 3750 Geoscience Seminar must be taken twice in fall terms for a total of 2 hours 2</td>
</tr>
<tr>
<td>GEOL 3755 Geological Research Methods and Data Analysis 3</td>
</tr>
<tr>
<td>GEOL 5802 Sedimentology and Stratigraphy 3</td>
</tr>
<tr>
<td>GEOG 3701 Introduction to Geographic Information Science 3</td>
</tr>
</tbody>
</table>

### Capstone Experience

Select one of the following: 4

| GEOL 48XX Field Camp (4 s.h. minimum) |
| STEM 4890 STEM Internship (4 s.h. maximum) |
| GEOL 4830 Senior Thesis |

### Electives

Select a minimum 24 s.h. of Upper Division elective courses (at least 2 courses must be non GEOL): 24

| ENST 3700 Environmental Chemistry |
| & 3700L and Environmental Chemistry Lab |
| GEOL 3702 Glacial Geology |
| GEOL 3706 Geology of Economic Mineral Deposits |
| GEOL 3709 Subsurface Investigations |
| GEOL 3710 Petroleum Geology of the Appalachian Basin |
| GEOL 3714 Principles of Paleontology |
| GEOL 3716 Environmental Impact of Abandoned Mines |
| ENST 3751 Water Quality Analysis |
| & 3751L and Water Quality Analysis Lab |
| GEOL 3720 Field Investigations in Geology |
| ENST 3780 Environmental Research |
| ENST 3781 Environmental Sampling Methods |
| GEOL 4804 Ground Water |
| GEOL 4806 Engineering Geology |
| GEOL 4812 GIS Applications to Geology |
| GEOL 4824 Tectonics |
| GEOL 4825 Geophysical Well Log Analysis |
| GEOL 4899 Special Topics |
| GEOL 5805 Special Problems in Geology |
| GEOL 5808 Introduction to Energy Resources |
| GEOL 5810 Groundwater Resource Evaluation |
| ENST 5810 Environmental Safety |
| GEOG 4801 Advanced Geographic Information Science |
| GEOL 5815 Geology and the Environment 2 |
| GEOL 5817 Environmental Geochemistry |
| ENST 5860 Environmental Regulations |

### Ancillary Science Courses

| CHEM 1515 General Chemistry 1 |
| & 1515L and General Chemistry 1 Laboratory 4 |
| CHEM 1516 General Chemistry 2 |
| & 1516L and General Chemistry 2 Laboratory 4 |
| MATH 1570 Applied Calculus 1 4 |
| or MATH 1571 Calculus 1 4 |
| STAT 3717 Statistical Methods 4 |
| or MATH 1572 Calculus 2 4 |
| PHYS 1501 Fundamentals of Physics 1 |
| & 1501L and Fundamentals of Physics Laboratory 1 5 |
| or PHYS 2610 General Physics 1 |
| PHYS 1502 Fundamentals of Physics 2 |
| & 1502L and Fundamentals of Physics Laboratory 2 4 |
| or PHYS 2611 General Physics 2 4 |

### Total Prescribed Semester Hours: 120-122 s.h.

---

#### Year 1

##### Fall

<table>
<thead>
<tr>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500 Success Seminar 1-2</td>
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<tr>
<td>or SS 1500 Strong Start Success Seminar</td>
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<tr>
<td>GEOL 1505 Physical Geology 4</td>
</tr>
<tr>
<td>ENST 2600 Foundations of Environmental Studies 4</td>
</tr>
<tr>
<td>&amp; 2600L and Foundations of Environmental Studies Laboratory</td>
</tr>
<tr>
<td>ENGL 1550 Writing 2 3-4</td>
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<tr>
<td>or ENGL 1549 Writing 1 with Support</td>
</tr>
<tr>
<td>GEOL 2600 Geology in the Field 1</td>
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<tr>
<td>GEOG 2611 Geospatial Foundations 3</td>
</tr>
<tr>
<td>GEOL 3711 Mineralogy 3</td>
</tr>
<tr>
<td>GEOL 3717 Petrology 3</td>
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<tr>
<td>GEOL 3705 Structures and Landscapes 4</td>
</tr>
<tr>
<td>GEOL 3708 Geological Field Methods 2</td>
</tr>
<tr>
<td>GEOL 3750 Geoscience Seminar must be taken twice in fall terms for a total of 2 hours 2</td>
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<tr>
<td>GEOL 3755 Geological Research Methods and Data Analysis 3</td>
</tr>
<tr>
<td>GEOL 5802 Sedimentology and Stratigraphy 3</td>
</tr>
<tr>
<td>GEOG 3701 Introduction to Geographic Information Science 3</td>
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</table>

### Semester Hours 13-15

##### Spring

<table>
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<tbody>
<tr>
<td>GEOL 2600 Geology in the Field 1</td>
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<tr>
<td>CHEM 1515 General Chemistry 1</td>
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<tr>
<td>&amp; 1515L and General Chemistry 1 Laboratory 4</td>
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</table>

### Semester Hours 17

#### Year 2

##### Fall

<table>
<thead>
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<th>S.H.</th>
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<tbody>
<tr>
<td>GEOL 2605 Historical Geology 4</td>
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<tr>
<td>ENGL 1551 Writing 2 3</td>
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<tr>
<td>or ENGL 1549 Writing 1 with Support</td>
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<tr>
<td>GEOL 2606 World Geography 3</td>
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<td>GEOG 2611 Geospatial Foundations 3</td>
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<tr>
<td>CHEM 1516 General Chemistry 2</td>
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<tr>
<td>&amp; 1516L and General Chemistry 2 Laboratory 4</td>
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</table>

### Semester Hours 16
Minor in Engineering Geology

Course Title S.H.
--- ---
GEOL 1505 Physical Geology and Physical Geology Laboratory 4
GEOL 2605 Historical Geology 4
GEOL 3704 Structural Geology and Structural Geology Laboratory 3
GEOL 3706 Geology of Economic Mineral Deposits 3
GEOL 3709 Subsurface Investigations 3
GEOL 4804 Ground Water 3

Total Semester Hours 20

Minor in Environmental Geology

Course Title S.H.
--- ---
GEOL 1505 Physical Geology and Physical Geology Laboratory 4
GEOL 2605 Historical Geology 4
GEOL 2615 3

Select at least 9 hours from the following:
- GEOL 3701 Geomorphology
- GEOL 3702 Glacial Geology
- GEOL 3709 Subsurface Investigations
- GEOL 3720 Field Investigations in Geology
- GEOL 4804 Ground Water
- GEOL 5815 Geology and the Environment 2
- GEOL 5817 Environmental Geochemistry

Total Semester Hours 20

Minor in Environmental Studies

Course Title S.H.
--- ---
ENST 2600 Foundations of Environmental Studies and Foundations of Environmental Studies Laboratory 4

Select one of the following:
- ENST 5800 Environmental Impact Assessment 3
- ENST 5830 Toxicology and Risk Assessment 3
- ENST 5860 Environmental Regulations 3

Select 12 s.h. of Upper-division Environmental Studies courses.

Total Semester Hours 19

Minor in Geoscience

Course Title S.H.
--- ---
GEOL 1505 Physical Geology 4
GEOL 2605 Historical Geology 4

Learning Outcomes

The learning outcomes for the Bachelor of Science in Applied Geology are as follows:

- Communicate effectively using the language, concepts, and models of geology in written, visual, and numerical formats.
- Properly apply the scientific method to research a geologic problem and formulate conclusions.
- Demonstrate ability to apply appropriate field- and laboratory-based methods (of acquiring, quantitatively and qualitatively analyzing, and interpreting geologic data and information).
- Demonstrate understanding of plate tectonics regarding the petrologic, stratigraphic, and structural evolution of continents and oceans.
Minor in Natural Gas and Water Resources

**Required Core Courses**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 2620</td>
<td>Intro to Natural Gas and Water Resources</td>
<td>3</td>
</tr>
<tr>
<td>ENST 2600</td>
<td>Foundations of Environmental Studies &amp; 2600L</td>
<td>4</td>
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<tr>
<td>STEM 2625</td>
<td>Natural Gas and Water Resources Seminar</td>
<td>1</td>
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</table>

**A. Water Resources and Environmental Management**

Select at least 3 s.h. from group A:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>BIOL 4801</td>
<td>Environmental Microbiology</td>
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<tr>
<td>BIOL 4801L</td>
<td>Environmental Microbiology Laboratory</td>
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<tr>
<td>BIOL 5888</td>
<td>Environmental Biotechnology</td>
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<tr>
<td>CCET 3724</td>
<td>Hydraulics and Land Development</td>
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<tr>
<td>CCET 4824</td>
<td>Environmental Technology</td>
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<tr>
<td>CEEN 3736</td>
<td>Fundamentals of Environmental Engineering</td>
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<tr>
<td>CHEM 2604</td>
<td>Quantitative Analysis</td>
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<tr>
<td>&amp; 2604L</td>
<td>and Quantitative Analysis Laboratory</td>
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<tr>
<td>CHEM 3719</td>
<td>Organic Chemistry 1</td>
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<tr>
<td>&amp; 3719L</td>
<td>and Organic Chemistry 1 Laboratory</td>
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<tr>
<td>CHEM 4860</td>
<td>Regulatory Aspects of Industrial Chemistry</td>
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<tr>
<td>CHEM 5804</td>
<td>Chemical Instrumentation</td>
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<tr>
<td>&amp; 5804L</td>
<td>and Chemical Instrumentation Laboratory</td>
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<tr>
<td>ENST 3700</td>
<td>Environmental Chemistry</td>
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<tr>
<td>&amp; 3700L</td>
<td>and Environmental Chemistry Lab</td>
<td></td>
</tr>
<tr>
<td>CEEN 3751</td>
<td>Water Quality Analysis</td>
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<tr>
<td>&amp; 3751L</td>
<td>and Water Quality Analysis Lab</td>
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</table>

**B. Natural Gas Production**

Select at least 3 s.h. from group B:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ACCT 3730</td>
<td>Oil and Gas Accounting</td>
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<tr>
<td>AHLT 4808</td>
<td>Environmental Health Concerns</td>
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</tr>
<tr>
<td>CEEN 3716</td>
<td>Fluid Mechanics</td>
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</tr>
<tr>
<td>&amp; 3716L</td>
<td>and Fluid Mechanics Lab</td>
<td></td>
</tr>
<tr>
<td>MECH 3720</td>
<td>Fluid Dynamics</td>
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</tr>
<tr>
<td>&amp; 3720L</td>
<td>and Fluid Dynamics Laboratory</td>
<td></td>
</tr>
<tr>
<td>MET 3714</td>
<td>Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>&amp; 3714L</td>
<td>and Fluid Mechanics Laboratory</td>
<td></td>
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<tr>
<td>CHEN 2688</td>
<td>Energy Assessment</td>
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<tr>
<td>GEOL 3709</td>
<td>Subsurface Investigations</td>
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<tr>
<td>GEOL 4825</td>
<td>Geophysical Well Log Analysis</td>
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<tr>
<td>ISEN 3736</td>
<td>Methods Engineering</td>
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<tr>
<td>ISEN 3736L</td>
<td>Methods Engineering Laboratory</td>
<td></td>
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</table>

Natural Gas and Water Resources Applications

**Total Semester Hours**

18

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**Physics and Astronomy**

Department of Physics, Astronomy, Geology, and Environmental Science
Room 2023 Ward Beecher Hall
(330) 941-3616 Fax: (330) 941-2131
Department Chairperson: Dr. W. Gregg Sturrus (wgsturrus@ysu.edu)
Academic Operations Specialist: Jill Mogg (jmmogg@ysu.edu)

**Welcome**

Welcome to the Physics and Astronomy program at YSU! We are proud of the unique opportunities we provide for our students. We are dedicated to the idea that students learn best by doing the activities considered to be the work of physicists and astronomers. Our Ward Beecher Planetarium sports a 40-foot projection dome, a Chronos GOTO Star Projector, and a SciDome HB full-dome digital projector, all of which are maintained and operated by our students. Our physics students also have access to state-of-the-art research equipment in our research labs. This equipment includes an atomic force microscope and an x-ray photoemission spectrometer for surface studies; a photolithography tool that is used for developing and testing new semiconductor materials and devices; and a Vibrant OPOTek optical parametric oscillator; an x-ray photoemission spectrometer for surface composition studies; and several pulsed YAG lasers for non-linear optics studies of layered polymer materials.

The astronomy research students learn to use the latest data analysis tools and work with imaging data from telescopes around the world. Students have access to the Ohio Supercomputer Facility do perform simulations studies on solid state systems. Furthermore, the department has an endowment specifically for use to pay students who work as assistants in our research labs. We strive to include students in all our research projects and our planetarium shows, and we are happy to discuss these opportunities with interested students.

Ward Beecher Planetarium general and programming information may be found by calling (330) 941-1370 or on the website at wbplanetarium.org (http://catalog.ysu.edu/undergraduate/colleges-programs/college-science-technology/engineering-mathematics/department-physics-astronomy/www.wbplanetarium.org)

**Mission Statement**

The Physics and Astronomy program strives to provide a high quality educational experience for its majors by involving undergraduate students in significant research activities to embody its philosophy of teaching through research; to continue and expand the research footprint of the department and the University; to serve the undergraduate population by offering challenging and essential course work; and to establish connections between the public and the scientific community and between the public and the University through outreach programs.

Courses are organized with the following aims:

1. To provide well-rounded training in physics and astronomy for those needing it for graduate study, industry, or for secondary school teaching.
2. To provide basic training for engineering and pre-professional students.
3. To acquaint students from non-science programs with the methods, applications, and theories of physics and astronomy in the modern world.

The program curricula, four-year plan, and minimum requirements for the degrees of Bachelor of Arts and Bachelor of Science with a major in physics and a Bachelor of Science degree with a combined major in physics and
astronomy are available through the links under the Programs of Study tab. These degrees may be earned in eight semesters if students average 15 hours per semester.

Degree Options
The BA degree program in physics is designed for students who are interested in fields that benefit from a strong background in physics or for students planning to terminate their education at the bachelor's degree level. The BS degree program in physics is designed for students who plan to pursue graduate studies in physics or technical positions in an industrial setting. The BS degree program with a combined physics and astronomy major is designed for students who plan to pursue graduate studies in astronomy or space science. For advising questions, please contact us at (330) 941-3616 or email Dr. Sturrus at wgsturrus@ysu.edu.

Students pursuing the BA degree must complete Foreign Language through the 2600 level.

A student desiring to teach physics or astronomy in secondary schools should consult the dean of the Beeghly College of Liberal Arts, Social Sciences, and Education.

Students are urged to come to the department office early in their first year for advising by the department chair.

For more information, visit the Department of Physics, Astronomy, Geology, and Environmental Sciences.

Department Program Directors:
Ward Beecher Planetarium Director: Dr. Patrick Durrell (Email: pdrdurrel@ysu.edu) (330)-941-7107
Chair
William Gregg Sturrus, Ph.D., Professor, Chair
Professor
Snjezana Balaz, Ph.D., Assistant Professor
Michael J. Crescimanno, Ph.D., Professor
Patrick R. Durrell, Ph.D., Professor
John J. Feldmeier, Ph.D., Professor
Tom Nelson Oder, Ph.D., Professor
Donald Priour, Ph.D., Associate Professor

Majors
• BS in Physics with a Minor in Mathematics (p. 506)
• BA in Physics with a Minor in Mathematics (p. 505)
• BS with a Combined Major in Physics and Astronomy and a Minor in Mathematics (p. 507)

Minors
• Physics Minor (p. 508)
• Astronomy Minor (p. 508)

Physics
PHYS 1500 Conceptual Physics 3 s.h.
A conceptual treatment of selected theories and laws of classical and modern physics and their application to the understanding of natural phenomena. The evolution of these laws from hypotheses to functional relationships examined in a historical context. Not applicable to the major in Physics or to the combined major in Physics and Astronomy.
Gen Ed: Natural Science.
PHYS 1500L Conceptual Physics Laboratory 1 s.h.
Experimental work designed to supplement PHYS 1500. Three hours per week.
Prereq. or concurrent: PHYS 1500.
PHYS 1501 Fundamentals of Physics 1 4 s.h.
Topics include kinematics, forces, energy, momentum, rotational kinematics, torque, angular momentum, simple harmonic motion, and mechanical waves. Not recommended for mathematics, chemistry, physics, or engineering majors.
Prereq.: C or better in MATH 1507 or MATH 1510 and MATH 1511, or readiness for MATH 1571 or equivalent, or at least level 40 on the Mathematics Placement Test.
Gen Ed: Natural Science.
PHYS 1501L Fundamentals of Physics Laboratory 1 1 s.h.
Experimental work designed to supplement the PHYS 1501, PHYS 1502 sequence. Three hours per week.
Prereq. or concurrent: PHYS 1501.
PHYS 1501R Fundamentals of Physics 1 Recitation 1 s.h.
Discussion and problem solving based on current material in PHYS 1501.
Concurrent with: PHYS 1501.
PHYS 1502 Fundamentals of Physics 2 3 s.h.
Study of electricity, magnetism, and light. Topics include electric charge, electric forces and fields, electric potential, capacitance and resistance in direct current circuits, basic circuit analysis, magnetic forces and fields, induced emf, inductance, reflections, refraction, geometric optics as applied to lenses and mirrors, interference, and diffraction.
Prereq.: PHYS 1501 or equivalent.
Gen Ed: Natural Science.
PHYS 1502L Fundamentals of Physics Laboratory 2 1 s.h.
Experimental work designed to supplement the PHYS 1501, PHYS 1502 sequence. Three hours per week.
Prereq. or concurrent: PHYS 1502.
PHYS 1506 Physics for Health Care 3 s.h.
The basic laws of physics applied to various biological and physiological problems. Designed for majors in the allied health fields, e.g., Respiratory care. Not applicable to the major in Physics or to the combined major in Physics and Astronomy.
PHYS 1507 Energy and the Environment 3 s.h.
Broad survey of the origin and distribution of the various forms of energy found in nature. Examination of the physical laws governing society’s use of energy and environmental consequences resulting therefrom. Not applicable to the major in Physics or to the combined major in Physics and Astronomy.
PHYS 1520H Honors Perspectives in Physics 3 s.h.
Introduction to past and recent ideas in physics with specific emphasis on their impact on historical and contemporary thought. The treatment, largely non-mathematical, is enhanced by selected readings suitable for the beginning honors student in any field. Not applicable to the major in Physics or to the combined major in Physics and Astronomy.
Prereq.: Admission to the Honors Program or permission of instructor and Director of Honors.
PHYS 2601  General Physics for Applied Medical Studies 1  4 s.h.
Description and analysis of motion including kinematics and dynamics of translation and rotation; analysis of equilibrium, energy, and momentum of objects; gravity; mechanical oscillations and waves. This course is designed primarily for students enrolled in the NEOMED-YSU program or in pre-medical curricula.
Prereq.: MATH 1507 and MATH 1508 or equivalent.
Prereq. or concurrent: MATH 1571, MATH 1581H, or MATH 1585H.
Gen Ed: Natural Science.

PHYS 2602  General Physics for Applied Medical Studies 2  4 s.h.
Description and analysis of electrical and magnetic effects; geometric and physical optics and the wave nature of light; introduction to atomic physics, quantum mechanics, nuclear structure and radiation.
Prereq.: PHYS 2601.
Gen Ed: Natural Science.

PHYS 2607  Physical Science for Middle and Secondary Education  4 s.h.
Selected topics in physical science appropriate to the middle- and secondary-level curriculum. Emphasis on diverse hands-on classroom activities, and multiple approaches to communicating basic concepts in physical science. Topics include simple machines, light and sound, batteries and bulbs, physical properties of solids, liquids and gases.
Prereq.: MATH 1501 or at least level 3 on the Mathematics Placement Test and admission to TELS Upper Division Status.
Gen Ed: Natural Science.

PHYS 2608  Sound  3 s.h.
The physical principles accounting for the production, propagation, and perception of sound waves. The relevance of these principles to phenomena ranging from hearing to the operation of various musical instruments. Introduction to auditorium acoustics. This course is designed for Music majors. Not applicable to the Physics major or to the combined Astronomy and Physics major.
Gen Ed: Natural Science.

PHYS 2610  General Physics 1  4 s.h.
A course in mechanics; the kinematics and dynamics of masses in translation and rotation; Newton's Laws; gravity; the conservation laws of energy and momentum; simple harmonic motion and introduction to wave motion and sound.
Prereq.: High school physics or PHYS 1501.
Prereq. or concurrent: MATH 1571.
Gen Ed: Natural Science.

PHYS 2610L  General Physics Laboratory 1  1 s.h.
Experimental work designed to supplement the PHYS 2610, 2611 sequence. Three hours per week.
Prereq. or concurrent: PHYS 2610 or PHYS 2601 for PHYS 2610L.

PHYS 2610R  General Physics 1 Recitation  1 s.h.
Discussion and problem solving based on current material in PHYS 2610.
Concurrent with: PHYS 2610.

PHYS 2611  General Physics 2  4 s.h.
Study of electric and magnetic fields and their effects; introduction to electric circuits; light as an electromagnetic wave; introduction to geometrical and physical optics.
Prereq.: PHYS 2610.
Prereq. or concurrent: MATH 1572.
Gen Ed: Natural Science.

PHYS 2611L  General Physics laboratory 2  1 s.h.
Experimental work designed to supplement the PHYS 2610, 2611 sequence. Three hours per week.
Prereq. or concurrent: PHYS 2611 or PHYS 2602.

PHYS 2617  Physical Science for Middle and High School Teachers  3 s.h.
Selected topics in physical science appropriate to the middle- and secondary-level curriculum. Emphasis on diverse hands-on classroom activities, and multiple approaches to communicating basic concepts in physical science. Topics include motion, forces, simple machines, light and sound, batteries and bulbs, physical properties of solids, liquids and gases.
Prereq.: At least level 35 on the Mathematics Placement Test (ALEKS 46-60) and admission to TELS Upper Division Status.
Gen Ed: Natural Science.

PHYS 2602  General Physics for Applied Medical Studies 2  4 s.h.

PHYS 2607  Physical Science for Middle and Secondary Education  4 s.h.

PHYS 2608  Sound  3 s.h.

PHYS 2610  General Physics 1  4 s.h.

PHYS 2610L  General Physics Laboratory 1  1 s.h.

PHYS 2611  General Physics 2  4 s.h.

PHYS 2611L  General Physics laboratory 2  1 s.h.

PHYS 2617  Physical Science for Middle and High School Teachers  3 s.h.
**Phys 3742 Electromagnetic Field Theory 2** 3 s.h.
Intermediate theory of electric and magnetic fields. Topics include electric field, scalar potential, techniques for calculating scalar potential (method of images, Laplace's and Poisson's equations, multipole expansion, Green's Function approach), dielectrics and polarization. Maxwell's equations and their application to the propagation of electromagnetic waves including reflection, refraction, transmission, and absorption; guided waves, retarded potentials, radiating systems, special relativity.

**Prereq.**: Phys 3741.

**Phys 3750 Mathematical Physics** 3 s.h.
The mathematics techniques required in the study of classical, statistical, and quantum mechanics, and field theory.

**Prereq.**: Math 3705 and either Phys 2611 or ECEN 2633.

**Phys 4805 Undergraduate Physics Research** 3 s.h.
Research conducted under the direction of a faculty member. The grading is Traditional/PR.

**Prereq.**: Phys 3703 and Phys 3704.

**Gen Ed**: Capstone.

**Phys 5810 Quantum Mechanics and Quantum Statistical Mechanics 1** 3 s.h.
The postulates of wave mechanics, Matrix mechanics, angular momentum coupling, scattering, perturbation theory, intrinsic spin, emission and absorption of radiation. Fermi-Dirac and Bose-Einstein statistics with applications in quantum theory. Must be taken in sequence before Phys 5811.

**Prereq.**: Phys 3703 and Phys 3704 and Math 3705.

**Phys 5811 Quantum Mechanics and Quantum Statistical Mechanics 2** 3 s.h.
The postulates of wave mechanics, Matrix mechanics, angular momentum coupling, scattering, perturbation theory, intrinsic spin, emission and absorption of radiation. Fermi-Dirac and Bose-Einstein statistics with applications in quantum theory. Must be taken in sequence.

**Prereq.**: Phys 5810.

**Phys 5823 Laser Physics and Photonics** 3 s.h.
Emission and absorption of radiation, including stimulated emission. Optical cavities and wave guides. Introduction to lasers. Modulation and detection of light. Applications of lasers to information processing and other technologies. Introduction to nonlinear optical and opto-electronic phenomena and nonlinear optical materials.

**Prereq.**: Phys 3722.

**Phys 5826 Nuclear Physics** 3 s.h.
General properties and behavior of the nucleus; nuclear models; nuclear reactions; radioactivity and decay processes; accelerators; current topics; elementary particles. Laboratory experiments. Prereq. Phys 3704, Phys 3704L, and Math 3705.

**Phys 5830 Condensed Matter Physics** 3 s.h.
Selected topics in condensed matter physics: mechanical, thermal, electrical, and magnetic properties of amorphous and crystalline materials; crystal structures.

**Prereq.**: Phys 3704.

**Phys 5835 Spectroscopy** 3 s.h.
Treatment of atomic, molecular, and nuclear structure based on the analysis of electromagnetic and other spectra.

**Prereq.**: Phys 3704.

**Phys 5835L Spectroscopy Laboratory** 1 s.h.
Experimental work designed to supplement Phys 5835. Three hours per week.

**Prereq., or concurrent**: Phys 5835.

**Phys 5850 Special Topics in Physics** 2-4 s.h.
The study of a standard topic at greater depth, of the development of a correlated background for areas of physical knowledge, or the physical and educational experimentation necessary to develop new physics courses. May be repeated twice.

**Prereq.**: Senior standing in Physics, Electrical Engineering, or Education.

**Phys 5890 Physics and Astronomy for Educators** 1-4 s.h.
Intensive study of selected topics of current interest in Physics education. Not applicable to the major in Physics or the combined Astronomy and Physics major. May be repeated for different topics.

**Prereq.**: Admission to upper-division status in the College of Education or to the Graduate School.

**Astronomy**

**Astr 1504 Descriptive Astronomy** 3 s.h.
Scientific method, introduction to modern understanding of the universe, astronomy and society, humanity's place in the universe. Astronomical observing methods, the solar system, stars and star systems, galaxies, cosmology. Recent astronomical discoveries.

**Gen Ed**: Natural Science.

**Astr 1504L Astronomy Laboratory** 1 s.h.
Telescope and Planetarium laboratory work designed to supplement Astr 1504. Measurement techniques and deductive methods to determine distance and size of astronomical objects. Three hours per week.

**Prereq.**, or concurrent: Astr 1504.

**Astr 2609 Moon and Planets** 3 s.h.
A detailed discussion of the moon and planets, with particular emphasis on the geology of the moon.

**Prereq.**: Astr 1504 or Geol 1505.

**Astr 3711 Astrophysics 1** 3 s.h.
The application of physical principles to the study of stars and stellar structure; stellar distances and dimensions; stellar spectra and chemical composition; nuclear reactions and the evolution of stars; star formation and the end states of stars.

**Prereq.**: Phys 2611 and Math 2673.

**Astr 3712 Astrophysics 2** 3 s.h.
The application of physical principles to the study of the Milky Way and other galaxies; including stellar populations; galactic structure; galaxy interactions; galactic distances and large scale structure of the universe; introduction to cosmology.

**Prereq.**: Astr 3711.

**Astr 4811 Observational Astronomy 1** 3 s.h.
Photometric photometry, photographic and CCD imaging techniques, spectroscopy, methods of data reduction. Some night observational work included.

**Prereq.**: Phys 2611 and Math 2673.

**Astr 4812 Observational Astronomy 2** 3 s.h.
Photometric photometry, photographic and CCD imaging techniques, spectroscopy, methods of data reduction. Some night observational work included.

**Prereq.**: Phys 2611 and Math 2673.

**Astr 4815 Undergraduate Astronomy Research** 3 s.h.
Research conducted under the direction of a faculty member. The grading is Traditional/PR.

**Prereq.**: Phys 3703 and Phys 3704.

**Gen Ed**: Capstone.

**Learning Outcomes**
The Department of Physics and Astronomy helps students in the departmental programs develop skills to acquire and demonstrate knowledge in classical mechanics, modern physics, electricity and magnetism, thermodynamics, quantum mechanics, and astrophysics. The learning outcomes for the BA Program in Physics are:

- Students will learn to model physical systems and interpret experimental and theoretical results.
- Students will learn how to measure the physical properties of systems using a variety of test equipment and defend the results of their
measurements using the associated accuracy and precision of these measurements.

- Students will learn to apply the concepts of classical physics, modern physics, thermodynamics, and electrostatics to solve problems and predict numerical results.

In addition to the learning outcomes for the BA program in physics, students of the BS program in physics and astronomy will learn to apply the concepts of astrophysics to solve problems and predict numerical results.

In addition to the learning outcomes for the BA program in physics, students of the BS program in physics and astronomy will learn to apply the concepts of astrophysics to solve problems and predict numerical results.

**Bachelor of Arts in Physics**

**Minimum requirements for the B.A. degree in Physics with a minor in mathematics**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td><strong>General Education Requirements</strong></td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics requirement (met with MATH in major)

- Arts and Humanities (6 s.h.)
- Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)
- Requirement met through courses in the major
- Social Science (6 s.h.)
- Social and Personal Awareness (6 s.h.)

**Major Requirements**

- Physics Courses:
  - PHYS 2610 General Physics 1 & 2610L and General Physics Laboratory 1
  - PHYS 2611 General Physics 2 & 2611L and General Physics Laboratory 2
  - PHYS 3703 Classical Mechanics and Dynamics
  - PHYS 3704 Modern Physics & 3704L and Modern Physics Laboratory
  - PHYS 3705 Thermodynamics and Classical Statistical Dynamics & 3705L and Thermodynamics and Classical Statistical Mechanics Laboratory
  - PHYS 3741 Electromagnetic Field Theory 1
  - PHYS 4805 Undergraduate Physics Research

- Physics upper division Elective

- Mathematics Courses:
  - MATH 1571 Calculus 1
  - MATH 1572 Calculus 2
  - MATH 2673 Calculus 3
  - MATH 3705 Differential Equations

- Minor Course:
  - One additional 3 s.h. upper division elective in mathematics is required for the mathematics minor.

<table>
<thead>
<tr>
<th>Elective</th>
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<tbody>
<tr>
<td>Other courses:</td>
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</table>
Bachelor of Science in Physics

Minimum requirements for the B.S. in Physics

<table>
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<td>Physics Courses:</td>
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<td>Modern Physics</td>
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<tr>
<td>PHYS 3705 &amp; 3705L</td>
<td>Thermodynamics and Classical Statistical Dynamics</td>
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<td>PHYS 3741</td>
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<td>PHYS 4805</td>
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<td>PHYS 3742</td>
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<td>PHYS 3750</td>
<td>Mathematical Physics</td>
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<td>PHYS 5810</td>
<td>Quantum Mechanics and Quantum Statistical Mechanics 1</td>
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<tr>
<td>PHYS 5811</td>
<td>Quantum Mechanics and Quantum Statistical Mechanics 2</td>
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<tr>
<td>Mathematics Courses:</td>
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<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
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</table>

MATH 1572 Calculus 2                      4
MATH 2673 Calculus 3                      4
MATH 3705 Differential Equations          3
One additional 3 s.h. upper division elective in mathematics is required for the mathematics minor.

Other Courses:
CHEM 1515 General Chemistry 1            4
& 1515L General Chemistry 1 Laboratory  4
CHEM 1516 General Chemistry 2            4
& 1516L General Chemistry 2 Laboratory  4
ECEN 2614 Basics of Electrical Engineering 3

Select one of the following programming courses
CIS 3735 UNIX Environment                 3-4
CSIS 2610 Programming and Problem-Solving 3

Electives:
If CIS 3735 is selected, 8 hours of upper division electives and 10 hours of any level electives; OR if CSIS 2610 is selected, 11 hours of upper division electives and 6 hours of any level electives needed

Total Semester Hours                     120-124
## Bachelor of Science with a Combined Major in Physics and Astronomy and a Minor in Mathematics

Minimum requirements for the BS with a combined major in physics and astronomy and a minor in mathematics

<table>
<thead>
<tr>
<th>COURSE</th>
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<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Mathematics Requirement (met through MATH in minor)</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
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<tr>
<td><strong>Major Requirements</strong></td>
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</table>

### Year 1
**Fall**
- YSU 1500: Success Seminar  
- SS 1500: Strong Start Success Seminar

### Year 2
**Fall**
- YSU 1500: Success Seminar  
- SS 1500: Strong Start Success Seminar

### Year 3
**Fall**
- PHYS 3703: Classical Mechanics and Dynamics (P)  
- PHYS 3741: Electromagnetic Field Theory 1 (P)
- PHYS 3750: Mathematical Physics
- Social Sciences GER Domain
- Arts & Humanities GER Domain

### Year 4
**Fall**
- PHYS 4805: Undergraduate Physics Research
- PHYS 5810: Quantum Mechanics and Quantum Statistical Mechanics 1 (P)
- Electives (Upper Division)

### Year 5
**Fall**
- PHYS 5811: Quantum Mechanics and Quantum Statistical Mechanics 2 (P)
- Social & Personal Awareness GER Domain
- Elective (Upper Division if CSIS 2610; any level if CIS 3735))
- Electives at any level: 6 hours if CSIS 2610; 7 hours if CIS 3735

### Year 6
**Fall**
- PHYS 5811: Quantum Mechanics and Quantum Statistical Mechanics 2 (P)
- Social & Personal Awareness GER Domain
- Elective (Upper Division if CSIS 2610; any level if CIS 3735))
- Electives at any level: 6 hours if CSIS 2610; 7 hours if CIS 3735

### Year 7
**Fall**
- PHYS 5811: Quantum Mechanics and Quantum Statistical Mechanics 2 (P)
- Social & Personal Awareness GER Domain
- Elective (Upper Division if CSIS 2610; any level if CIS 3735))
- Electives at any level: 6 hours if CSIS 2610; 7 hours if CIS 3735

### Total Semester Hours
121-122
### Minor in Astronomy

<table>
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<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>PHYS 3704</td>
<td>Modern Physics &amp; 3704L Modern Physics Laboratory (P)</td>
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<td>CHEM 1515</td>
<td>General Chemistry 1 &amp; 1515L General Chemistry 1 Laboratory (NS)</td>
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<td>MATH 2673</td>
<td>Calculus 3 (P)</td>
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<td>Writing 2</td>
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<tr>
<td>CHEM 1516</td>
<td>General Chemistry 2 &amp; 1516L General Chemistry 2 Laboratory (P, NS)</td>
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<td>MATH 3705</td>
<td>Differential Equations (P)</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>CSIS 2610</td>
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<tr>
<td>PHYS 3703</td>
<td>Classical Mechanics and Dynamics (P)</td>
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<tr>
<td>PHYS 3741</td>
<td>Electromagnetic Field Theory 1 (P)</td>
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<td>ASTR 3711</td>
<td>Astrophysics 1 (P)</td>
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<td>Physics Elective (Upper Division)</td>
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<tbody>
<tr>
<td>PHYS 3705</td>
<td>Thermodynamics and Classical Statistical Dynamics &amp; 3705L Thermodynamics and Classical Statistical Mechanics Laboratory (P)</td>
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<tr>
<td>ASTR 3712</td>
<td>Astrophysics 2 (P)</td>
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<td>Arts &amp; Humanities GER Domain</td>
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<td>Social &amp; Personal Awareness GER Domain</td>
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<th>Year 4</th>
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<tr>
<td>ASTR 4811</td>
<td>Observational Astronomy 1</td>
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<tr>
<td>ASTR 4815</td>
<td>Undergraduate Astronomy Research (Capstone)</td>
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<td>Upper Division elective</td>
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<td>Arts &amp; Humanities Elective GER Domain</td>
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<td><strong>Semester Hours</strong></td>
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</table>

The following four courses require PHYS 2611 and MATH 2673 as prerequisites:

- ASTR 3711 Astrophysics 1
- ASTR 3712 Astrophysics 2
- ASTR 4811 Observational Astronomy 1
- ASTR 4812 Observational Astronomy 2

Prerequisites courses PHYS 3703 and PHYS 3704 are required for ASTR 4815.

**Total Semester Hours** 18

### Minor in Physics

<table>
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<tr>
<th>Year 3</th>
<th>Fall</th>
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<tbody>
<tr>
<td>PHYS 2610</td>
<td>General Physics 1 &amp; 2610L General Physics Laboratory 1</td>
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<tr>
<td>PHYS 2611 &amp; 2611L General Physics laboratory 2</td>
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Select 8 s.h. of upper division physics electives.

**Total Semester Hours** 18

1 Upper division elective hours may be substituted for PHYS 2610L General Physics Laboratory 1 and/or PHYS 2611L General Physics laboratory 2 for students majoring in engineering or a natural science.

### Rayen School of Engineering Accreditation

The baccalaureate degree programs in the Rayen School of Engineering accredited by the Engineering Accreditation Commission (EAC) of ABET (http://www.abet.org) are:

- chemical engineering (jointly accredited by the American Institute of Chemical Engineers)
- civil engineering
- electrical engineering
- industrial and systems engineering
- mechanical engineering

### School of Engineering Disqualification

A student who earns two grades of D, F, or NC in the same course(s) listed below will be disqualified from transferring into a degree-granting engineering major. These courses are:

<table>
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<tr>
<th>COURSE</th>
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<td>MATH 1571</td>
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<td>ENGL 1540</td>
<td>Introduction to College Writing</td>
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<td>ENGL 1550</td>
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<td>General Chemistry 1 and General Chemistry 1 Laboratory</td>
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<tr>
<td>PHYS 2610</td>
<td>General Physics 1</td>
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### Enrollment in Restricted Engineering Courses

Enrollment in most engineering courses is restricted to those admitted to a degree-granting engineering major. A few engineering courses are not restricted. They are:

- ASTR 2609 Moon and Planets
- ASTR 2610 General Physics 1
All other courses require admission to a professional engineering major unless approved by the chair of the engineering department and coordinator of the engineering program offering the course and by the STEM College dean. Students will be administratively withdrawn from restricted courses in which they are improperly enrolled.

Bachelor of Engineering Degree (BE)

Graduation Policies

All engineering programs have pre-college course requirements listed in the chart at the end of this section that should be completed in high school or in equivalent course work at the college level. YSU offers the equivalent high school courses for those not meeting these pre-college requirements. These high school deficiencies do not count toward graduation requirements and should be completed during the first two years of enrollment.

Each engineering program has minimum graduation requirements. These requirements can affect a student's enrollment in senior-level classes. If a senior-level student reaches a point where it is not possible to achieve graduation requirements, further enrollment in engineering classes will be denied. In addition to the overall recalculated C average required by the University, an unrecalculated C average in all engineering courses is required in all majors. These minimum graduation requirements are referred to as a triple C requirement.

Chemical Engineering

A student who is failing to meet the triple C requirement prior to the senior year will be denied enrollment in CHEN 4887 Process and Plant Design 1.

Civil Engineering

A student who is failing to meet the triple C requirement prior to the senior year will be denied enrollment in:

<table>
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<tr>
<th>COURSE</th>
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<th>S.H.</th>
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<tbody>
<tr>
<td>ENGR 1500</td>
<td>Engineering Orientation</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 1550</td>
<td>Engineering Concepts</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 1560</td>
<td>Engineering Computing</td>
<td>2</td>
</tr>
<tr>
<td>CEEN 2610</td>
<td>Surveying and Surveying Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 2610L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECEN 1521</td>
<td>Digital Circuits and Digital Circuits Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 1521L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH 1560</td>
<td>Engineering Communication with CAD</td>
<td>2</td>
</tr>
</tbody>
</table>

Mechanical Engineering

A student who is failing to meet the triple C requirement will be denied permission to register in any junior level mechanical engineering course until remedial measures, as required by the department chair, are agreed to by the student. Also, at the end of the junior year, the student will be denied permission to register in MECH 4808 Mechanical Systems Design 1, MECH 4808L Mechanical Systems Design Laboratory, and MECH 4809 Mechanical Systems Design 2, until the triple C requirement is met.

Cooperative Education/Professional Practice

Several programs leading to a baccalaureate degree offer students an optional cooperative education program. Co-op students are required to complete the same academic program for graduation as those not participating in the cooperative education experience. Credit hours awarded for the cooperative education experience are considered “add-on” hours to the degree. Professional practice opportunities include working with faculty on grants and research projects as well as internship opportunities with local industry. A professional practice coordinator is available to assist in student placement.

The table below shows the minimum pre-college requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Algebra 1 and 2</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Geometry</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Trigonometry</td>
<td></td>
<td>1.5</td>
</tr>
<tr>
<td>Chemistry</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Physics</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>1.5</td>
</tr>
</tbody>
</table>

For more information, visit the Rayen School of Engineering.

Civil/Environmental and Chemical Engineering

In Fall 1998, the Department of Civil and Environmental Engineering was combined with the Department of Chemical Engineering to form the Department of Civil/Environmental and Chemical Engineering. The department housed two distinct programs--Civil Engineering (CE) and Chemical Engineering (CHE)--with separate faculty lines dedicated to each program. Both programs offer BE and MS degrees.

In Fall 2020, the department joined the other engineering programs in the YSU Rayen School of Engineering.

For more information on each program, visit the College of Science, Technology, Engineering and Mathematics (http://www.ysu.edu/academics/science-technology-engineering-mathematics/).

Professor

Pedro Cortes, Ph.D., Associate Professor
Richard Albert Deschenes, Jr., Ph.D., Assistant Professor
Sahar Ehsani, Ph.D., Assistant Professor
AKM Anwarul Islam, Ph.D., Professor
Holly J. Martin, Ph.D., Associate Professor
Byung-Wook Park, Ph.D., Assistant Professor
Douglas M. Price, Ph.D., Associate Professor

Electrical and Computer Engineering

Students who have not earned a C or better grade in ECEN 3741 Electromagnetic Fields 1 and ECEN 3742 Electromagnetic Fields 2 and students who are failing to meet the triple C requirement will be denied enrollment in senior level courses.

Industrial and Systems Engineering

A student who is failing to meet the triple C requirement will be denied enrollment in 4000- and 5000-level ISEN courses.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEEN 4863</td>
<td>Integrated Design Project</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 5837</td>
<td>Environmental Engineering Design</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 5855</td>
<td>Reinforced Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 4881</td>
<td>Geotechnical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECH 4808L</td>
<td>Mechanical Systems Design Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MECH 4809</td>
<td>Mechanical Systems Design 2</td>
<td>3</td>
</tr>
</tbody>
</table>

YSU 2021-2022 Undergraduate Catalog
Suresh Sharma, Ph.D., Associate Professor
Lecturer
Wei Hu, Ph.D., Lecturer
Shirley Xie, Ph.D., Lecturer

Majors
- Chemical Engineering Program (p. 513)
- Civil Engineering Program (p. 518)

Civil and Environmental Engineering

CEEN 2601 Statics 3 s.h.
Principles of engineering mechanics as applied to statics with vector applications to forces and moments; centroid and center of gravity; equilibrium; friction; moments of inertia: relationship between loads, stress and strain in tension, compression, torsion and bending.
Prereq.: MATH 1572 or MATH 1572H; PHYS 2610 or concurrent.

CEEN 2602 Strength of Materials 3 s.h.
Relationships between loads, shear and bending moments in beams; combined stresses in beams; indeterminate beam analysis; virtual load; connections; columns.
Prereq.: CEEN 2601.

CEEN 2602L Strength of Materials Lab 1 s.h.
Experimental verification of strength of materials; testing: tension, torsion, non-destructive tests of steel; concrete compression and Poisson ration, wood tests.
Coreq.: CEEN 2602.

CEEN 2610 Surveying 3 s.h.
The theory of surveying and the use of instruments. Problems in leveling, traversing, and topography. Introduction to circular and vertical curves.
Prereq.: MATH 1513 or equivalent.

CEEN 2610L Surveying Laboratory 1 s.h.
Field surveying principles and techniques. Uses of transit and level are stressed. Three laboratory hours per week.
Coreq.: CEEN 2610.

CEEN 2660 Computer Aided Design and Drafting 2 s.h.
This course is designed for students who wish to be involved with the civil engineering design fields and for those interested in computer aided design and drafting. Students will be introduced to both traditional and computer aided design and drafting skills. The aim of this course is to introduce students to basic information, skills, and concepts related to drafting and design. Special attention is given to: sketching, measurement, room planning, multi-view drawing, auxiliary views, working drawings, sectional views, orthographic drawings along with AutoCAD tools and commands. The course includes 1 s.h. lecture and 1 s.h. lab.

CEEN 3710 Civil Engineering Materials 3 s.h.
A study of the principal materials used for civil engineering and construction purposes, with special attention paid to physical and mechanical properties of the materials and their importance to the engineer.
Prereq.: CEEN 2602.

CEEN 3711 Technology and Society 3 s.h.
A critical exploration of how societal needs affect the creation of technologies and how technology affects society. The course is interdisciplinary in nature and presents various approaches to examining the complex interaction between humans and their tools. Topics include: (1) technology in human history; (2) society, science, and technology development; (3) technology and social change; (4) technology, knowledge, and power; (5) technology, population, and the environment. Listed also as SOC 3789.
Prereq.: Junior standing or consent of instructor.

CEEN 3716 Fluid Mechanics 3 s.h.
Proportions of fluids, fluid statics, kinematics; Bernoulli equation; fluid momentum; laminar and turbulent flow through simple pipes; boundary layers; dimensional analysis and similitude.
Prereq.: CEEN 2602.

CEEN 3716L Fluid Mechanics Lab 1 s.h.
Experimental verification of the principles of fluid mechanics as applied to incompressible fluid. Three hours laboratory per week.
Prereq.: CEEN 2602.
Coreq.: CEEN 3716.

CEEN 3717 Hydraulic Design 4 s.h.
Analysis of flow in complex pipe systems; pumps; open channel flow; culverts; spillways; storm water drainage. Three hours lecture and three hours of computational laboratory per week.
Prereq.: CEEN 2610 and CEEN 3716.

CEEN 3720 Transportation Engineering 3 s.h.
Introductory survey of transportation topics including transportation systems, vehicular operation and control, and transportation planning techniques; introduction to design of highways, airports, and railroads; and traffic engineering.
Prereq.: CEEN 2610.

CEEN 3726 Fundamentals of Environmental Engineering 3 s.h.
Causes and effects of water, air and land pollution; measurements of environmental quality; environmental regulations; introduction to methods of pollution control.
Prereq.: CHEM 1515.

CEEN 3749 Structural Analysis 1 3 s.h.
The determination of shears, moments, and stresses in statically determinate beams, frames, and trusses. Consideration of dead, live, moving, and wind loads. Elastic deflections of simple structures. Introduction to the analysis of statically indeterminate structures using numerical and energy methods.
Prereq.: CEEN 2602.

CEEN 3749L Structural Analysis 1 Lab 1 s.h.
Introduction to stiffness-based analysis of determinate and indeterminate structures. Computer analysis of various structural systems, including plane and space trusses, continuous beams, plane and space frames, plates. P-delta stability analysis of frames. Three hours computational lab per week.
Prereq.: CEEN 2602; concurrent with CEEN 3749.

CEEN 3751 Water Quality Analysis 3 s.h.
Introduction to physical, chemical, and biological measurements of water quality. Sample collection and laboratory analysis of natural waters, drinking water, and wastewater. Interpretation of environmental data. Two hours lecture and three hours laboratory per week. Identical to ENST 3751.
Prereq.: CEEN 3736 or ENST 2600; CHEM 1515.

CEEN 3751L Water Quality Analysis Lab 0 s.h.
Laboratory experience in the analysis of natural waters, drinking water and wastewater. Emphasizes procedures for the collection and interpretation of data on current environmental problems. Three hours laboratory per week. Must be taken concurrently with CEEN 3751.

CEEN 4800 Special Topics 3 s.h.
Special topics and new developments in Civil Engineering. Subject matter, credit hours, and special prerequisites to be announced in advance of each offering. May be repeated to a maximum of 6 s.h.
Prereq.: Senior standing or consent of instructor.

CEEN 4812 Construction Management 3 s.h.
Fundamentals of construction management: contracts, bonding, estimating, organization, finance; cost and productivity of equipment, material, and labor; and project planning and scheduling.
Prereq.: CEEN 3717 or CEEN 4881.
CEEN 4835  Highway Design  3 s.h.
Methods of highway route location; design methods and standards for highways, intersections, freeways, and interchanges. Includes extensive use of computer-aided design.
Prereq.: CEEN 3720.

CEEN 4863  Integrated Design Project  3 s.h.
Students will be required to complete a meaningful design experience that focuses attention on professional practice and is predicated on the accumulated background of curriculum components. Two hours of lecture and three hours of laboratory a week.
Prereq.: CEEN 5855 and GPA of 2.0 or better.
Gen Ed: Capstone.

CEEN 4879  Civil Engineering Analysis  3 s.h.
Application of mathematical and numerical methods to the systematic analysis and development of problems in the field of Civil Engineering.
Prereq.: CEEN 3749.

CEEN 4881  Geotechnical Engineering  3 s.h.
Properties of soil, classification, capillarity, seepage, permeability, stresses, consolidation, shear strength; analysis and design of foundation structures, retaining walls, piles, drilled piers, sheet pile walls, special footings, stability.
Prereq.: MATH 2672; CEEN 3749.

CEEN 4881L  Geotechnical Lab  1 s.h.
Typical soil testing procedures and physical testing of soil samples.
Prereq.: Concurrent with: CEEN 4881.

CEEN 5820  Pavement Material and Design  3 s.h.
Design methods for flexible, rigid and other wheel-supporting pavements to include investigation, testing and preparation of subgrade, base course and pavement materials, design of various pavement mixtures, stresses in pavements, pavement design, and strengthening existing pavements.
Prereq.: CEEN 3720 and CEEN 4881.

CEEN 5829  Civil Engineering Materials - Concrete  3 s.h.
A course designed to broaden the student’s understanding of Portland Cement Concrete as a construction material. Topics include the study of cement, hydration of cement, aggregates, admixtures for concrete, mix design handling and placing, curing and properties of Portland Cement Concrete. Testing of Concrete, quality control and special concretes are also included. A library research paper on a concrete-related topic of the student’s choice is required.
Prereq.: CEEN 3749 or permission of instructor.

CEEN 5832  Natural Systems Engineering  3 s.h.
Introduction to the features, functions and values of natural aquatic systems, and engineering approaches to analysis and restoration design. Focus on wetlands and streams. Topics include regulations, wetland delineation, constructed wetland design, basic stream geomorphology, and stream restoration design.
Prereq.: CEEN 3736 or permission of instructor.

CEEN 5836  Environmental Water Chemistry  3 s.h.
Fundamental principles and calculations of major chemical reactions and equilibriums that occur in aquatic environments, and water/wastewater treatment processes.
Prereq.: CEEN 3736.

CEEN 5837  Environmental Engineering Design  3 s.h.
Theory and design of unit operations and processes for treatment of drinking water and municipal wastewater.
Prereq.: CEEN 3736.

CEEN 5849  Structural Analysis 2  3 s.h.
Analysis of statically indeterminate beams, trusses, bents and multistory frames, utilizing concepts of strain energy, virtual work, slope-deflection, and moment distribution. Introduction to matrix methods of analysis using force and displacement methods.
Prereq.: CEEN 3749.

CEEN 5855  Reinforced Concrete Design  3 s.h.
An introduction to the behavior, analysis, and design of reinforced concrete members. Included are singly and doubly reinforced beams, tee-beams, slabs, short and long columns.
Prereq.: CEEN 3749.

CEEN 5856  Steel Design  3 s.h.
An introduction to the behavior and design of steel structures. Included is the design of rolled and built-up tension members, beams, columns, beam-columns, welded and bolted connections.
Prereq.: CEEN 3749.

CEEN 5869  Design of Air Pollution Control Systems  3 s.h.
Engineering analysis, procedures, and techniques for the selection, applications and operation of air pollution control methods in various operational situations.
Prereq.: CEEN 3736.

CEEN 5877  Systems Engineering and Project Management  3 s.h.
Systems approach to engineering design, non-linear models; linear programming; dynamic programming; network analysis; project management.
Prereq.: MATH 3705.

CEEN 5880  Advanced Hydraulics  3 s.h.
Application of hydraulic principles for one dimensional river modeling; understanding the fundamental processes of open channel hydraulics; application of HEC-RAS/HEC-GeoRAS models for river system modeling.
Prereq.: A “C” or better in CEEN 3717.

CEEN 5882  Foundation Engineering  3 s.h.
Analysis and design of various foundations, including abutments, piers, piles, and footings; slope stability of embankments.
Prereq.: CEEN 4881 and CEEN 5855.

CEEN 5883  Bridge Engineering  3 s.h.
Analysis and design of concrete and steel bridges; specifications and code requirements; design detailing; effects of natural and man-made hazards on bridges; implications of bridge failures.
Prereq.: CEEN 5855 and CEEN 5856.

CEEN 5884  Solid and Hazardous Waste Management  3 s.h.
Sources, characteristics, handling and disposal options for solid waste and hazardous waste; topics include regulations, health effects, waste minimization, collection systems, landfill design, treatment and processing methods, and site assessment.
Prereq.: CEEN 3736.

Chemical Engineering

CHEN 2650  Computer Methods in Chemical Engineering  2 s.h.
Application of computational software packages and spreadsheets to solve chemical engineering problems. Utilization of process simulation packages. Real-time computing applications in laboratory automation.
Prereq.: ENGR 1550, ENGR 1550H or consent of instructor.

CHEN 2683  Chemical Engineering Principles 1  3 s.h.
Prereq.: MATH 1571, MATH 1571H or MATH 1585H, CHEM 1515.

CHEN 2684  Chemical Engineering Principles 2  3 s.h.
Prereq.: CHEN 2683.

CHEN 2688  Energy Assessment  3 s.h.
CHEN 3700 Measurements and Instrumentation 3 s.h.
Sensors, measurements, and instrumentation are the cornerstones of hands-on learning in engineering, which prepares students for careers and advanced research. This course is much more about measurement science than about computer science or scientific computing. It helps students make the most productive use of computers in the engineering research laboratory. Understand and implement the techniques of computer-based real-time instrumentation and design operational and analytical software using Laboratory Virtual Instrument Engineering Workbench (LabVIEW) for Data Acquisition (DAQ) device and simulation of engineering laboratory measurement instruments. Measure physical and chemical properties with various sensors and interfacing LabVIEW and DAQ device.
Prereq.: CHEN 2683.

CHEN 3718 Women, Science, and Technology 3 s.h.
An overview of the role women have played in scientific and technological advances. Problems unique to women entering scientific professions will be addressed, information about scientific and technical careers and job opportunities and contacts with professionals in the community will be provided.
Prereq.: ENGL 1550.

CHEN 3721 Engineering Plastics 3 s.h.
Preparation, characterization, manufacture, properties and applications of commercial polymers.
Prereq.: CHEN 2684 and CHEM 3719; or consent of instructor.

CHEN 3726 Elementary Nuclear Reactor Engineering 3 s.h.
Basic engineering science to serve as background material for nuclear reactor design. Nuclear fission as an energy source. Reactor use and classification. Comprehensive discussion of reactor design problems such as neutron distribution in the core, type of moderator, heat removal, and radiation protection.
Prereq.: MATH 2673, PHYS 2610.

CHEN 3771 Chemical Engineering Thermodynamics 1 3 s.h.
Development of the concepts and formalisms of thermodynamics and their applications to chemical engineering systems. Real and ideal behavior of single and multicomponent systems. Introduction to the thermodynamics of phase equilibria. Analysis and design of thermal systems. Additional topics include applications in transport phenomena and plant design.
Prereq.: MATH 2673 or MATH 2686H and CHEN 2684.

CHEN 3785L Transport Phenomena Laboratory 1 s.h.
Experimental studies of transport properties and momentum, energy and mass transfer using industrial type equipment. Correlation of data and comparison with theory. Oral presentations and preparation of technical reports. Three hour laboratory.
Prereq.: CHEN 3786 or concurrent.

CHEN 3786 Transport Phenomena 1 4 s.h.
Mathematical formulation of conversion laws. Dimensional analysis. Mechanism and fundamentals of momentum and energy transfer with selected applications to analysis and design of chemical engineering equipment. Three hours lecture and three hours computational lab per week.
Prereq.: MATH 2673 or MATH 2686H and CHEN 2684.

CHEN 3787 Transport Phenomena 2/Unit Operations 1 3 s.h.
Mass transfer processes. Diffusional operations and separation processes with emphasis on evaporation, humidification and drying. Derivation of design equations from mass and energy balances, and application to equipment design. Solution of simultaneous differential equations of mass, momentum, and energy.
Prereq.: CHEN 3786.

CHEN 3787L Unit Operations Laboratory 1 1 s.h.
Experiments in absorption, cascade operations, reaction kinetics, mixing and other chemical engineering operations employing industrial and pilot plant size equipment and instrumentation. Treatment of experimental data, correlations and comparison with theory. Oral presentations and preparation of technical reports. Three hour laboratory.
Prereq.: CHEN 3787.

CHEN 4801 Chemical Engineering Projects 3 s.h.
Chemical engineering projects under the guidance of a faculty member. Literature search, design and construction of apparatus, experimentation and preparation of a comprehensive report.
Prereq.: Consent of instructor.

CHEN 4802 Chemical Engineering Projects 3 s.h.
Chemical engineering projects under the guidance of a faculty member. Literature search, design and construction of apparatus, experimentation and preparation of a comprehensive report.
Prereq.: Consent of instructor.

CHEN 4803 Chemical Engineering Projects 3 s.h.
Chemical engineering projects under the guidance of a faculty member. Literature search, design and construction of apparatus, experimentation and preparation of a comprehensive report.
Prereq.: Consent of instructor.

CHEN 4815 Unit Operations 2 3 s.h.
Gas absorption and desorption, interphase mass transfer processes, liquid extraction and leaching. Physical separation processes including filtration, settling, and size reduction. Derivation of the design equations for the above processes, and applications of the design equations to equipment design.
Prereq.: CHEN 3787.

CHEN 4815L Unit Operations Laboratory 2 1 s.h.
Experiments in absorption, cascade operations, reaction kinetics, mixing and other chemical engineering operations employing industrial and pilot plant size equipment and instrumentation. Treatment of experimental data, correlations and comparison with theory. Oral presentations and preparation of technical reports. Three hour laboratory.
Prereq.: CHEN 4815.

CHEN 4815R Unit Operations 2 Applications 1 s.h.
Utilizing computer programs for gas absorption and desorption, interphase mass transfer processes, liquid extraction and leaching. Includes applications of the design equations to equipment design.
Prereq.: CHEN 3787.

CHEN 4822 Reinforced Polymer Structures 3 s.h.
Survey of raw materials, manufacturing methods, and design of products utilizing reinforcing materials combined with an elastomer or polymer binder.
Prereq.: CHEN 2684 or consent of instructor.

CHEN 4840 Biochemical Engineering Fundamentals 3 s.h.
Design of biological reactors, bioremediation schemes, methods for the purification and mass production of chemical species from living organisms or cultures, extraction, and fermentation. Technologies and processing of recombinant DNA, antibiotics, antibodies, vitamins, steroids, and methane are included. Essentials of microbiology, biochemistry, and genetics will precede industrial applications. Prereq.: junior standing.
Prereq.: CHEN 2684 or consent of instructor.

CHEN 4880 Chemical Reactor Design 1 3 s.h.
Chemical reaction equilibria. Theoretical developments and methods of interpreting experimental data pertaining to chemical kinetics. General design principles and construction features of reactors with application of these principles to the design of specific reactors.
Prereq.: CHEN 3771.

CHEN 4880R Reactor Design Applications 1 s.h.
Utilizing computer programs for determination of chemical reaction equilibria, chemical kinetics, and designing reactors.
Prereq.: CHEN 3771.

CHEN 4881 Chemical Reactor Design 2 3 s.h.
Chemical reaction equilibria. Theoretical developments and methods of interpreting experimental data pertaining to chemical kinetics. General design principles and construction features of reactors with application of these principles to the design of specific reactors.
Prereq.: CHEN 4880.
CHEN 4882  Process Dynamics  3 s.h.
Introduction to automatic control and control loop concepts. Laplace transform techniques. Linear open-loop and closed-loop systems. Root-locus and frequency response methods. Design of control systems.  
Prereq.: CHEN 3786.

CHEN 4887  Process and Plant Design I  3 s.h.
An examination of engineering economic analysis to include: cost estimation, profitability, optimum design, principles of fixed and operating costs, materials and site selection, and general and specialized design techniques.  
Prereq.: CHEN 3787 Minimum grade of C, CHEN 4880 Minimum grade of C and unrecalculated GPA of 2.0 or better in major courses.

CHEN 4888  Process and Plant Design II  3 s.h.
The application of chemical engineering and cost principles to the component design and selection of process equipment. The application of chemical engineering and cost principles to the design of chemical plants and processes including societal aesthetic, environmental, and safety considerations.  
Prereq.: CHEN 4887 minimum grade of C.

CHEN 5800  Special Topics  1-4 s.h.
Special topics and new developments in chemical engineering. Subject matter, credit hours, and special prerequisites to be announced in advance of each offering.  
Prereq.: Consent of instructor.

CHEN 5805  Principles of Biomedical Engineering  3 s.h.
Application of engineering principles and methods of analysis to processes in the human body. Rheological, physical and chemical properties of body fluids. Dynamics of the circulatory system. The human thermal system. Transport through cell membranes. Analysis and design of artificial organs.  
Prereq.: CHEN 2684 or consent of instructor.

CHEN 5810  The Business of Engineering  3 s.h.
Industrial processing facilities, and the engineers and business people that run them. Decision-making perspectives and the technical and communication skills of each group are compared. Focus is on quality control, R&D, and efficiency.  
Prereq.: CHEN 3726 or consent of instructor.

CHEN 5811  Advanced Transport Phenomena  3 s.h.
Development of basic differential balance equations for mass, momentum and energy. Analytical and approximate solutions to the equation of change with application to the analysis of common engineering problems.  
Prereq.: CHEN 3786.

CHEN 5820  Industrial Pollution Control  3 s.h.
Types, sources and effects of industrial and hazardous waste; principles of industrial and hazardous waste control; discussion and design of biological, physical, and chemical treatment processes.  
Prereq.: CHEN 2684 or consent of instructor.

CHEN 5821  Fundamentals of Polymer Science  3 s.h.
The survey of polymerization mechanisms, polymer structure-property relationships, transport properties, flammability-related plasticizers and solvents as well as design applications.  
Prereq.: CHEN 2684 or consent of instructor.

CHEN 5830  Nuclear Reactors  3 s.h.
Neutron interactions and scattering; moderation ratio, the steady state reactor core and four factor equation, the diffusion equation for various reactor geometries and the reflected reactor core.  
Prereq.: CHEN 3726 or consent of instructor.

CHEN 5835  Introduction to Nuclear Fusion  3 s.h.
Fusion reactors; the kinetics of fusion reactions. Plasma confinement technology.  
Prereq.: CHEN 3726.

CHEN 5845  Corrosion Engineering  3 s.h.
Introduction to causes and forms of corrosion, corrosion rate calculations, electrode potentials, electrochemistry, corrosion testing, and effects of corrosion on mechanical properties. Theory and use of corrosion inhibition methods.  
Prereq.: CHEN 2684.

CHEN 5850  Industrial Processes  3 s.h.
A fundamental approach to the design of industrial chemical processes. Emphasis upon flow-charting, chemical reactions, separations involved, thermodynamics, and economic considerations. Food and pharmaceutical processing is a major focus.  
Prereq.: CHEN 2684 or consent of instructor.

CHEN 5854  Corrosion Engineering  3 s.h.
Introduction to causes and forms of corrosion, corrosion rate calculations, electrode potentials, electro-chemistry, corrosion testing, and effects of corrosion on mechanical properties. Theory and use of corrosion inhibition methods.  
Prereq.: CHEN 2684 or consent of instructor.

CHEN 5883  Mathematical Methods in Chemical Engineering  3 s.h.
The applications of advanced mathematics to the solution of chemical engineering problems. Topics covered include treatment and interpretation of engineering data, modeling of chemical engineering systems and formulation of ordinary and partial differential equations governing chemical engineering operations and their solutions by use of numerical and analytical techniques.  
Prereq.: CHEN 3786.

CHEN 5886  Nuclear Reactor Design  3 s.h.
The steady state reactor core; four-factor equation, resonance escape probability, neutron flux distribution in various geometrics, two-group and multigroup theories. Transient reactor behavior and control; effect of delayed neutrons, fission product poisoning, nuclear fuels, nuclear heat transfer and burnout problems, reactor economy; fuel burnup and power cost. Thermal breeder and fast reactors. Neutron flux distribution measurements. Radiation detection and monitoring.  
Prereq.: CHEN 3726 or consent of instructor.

Bachelor of Engineering in Chemical Engineering

Introduction
The Chemical Engineering Program at Youngstown State University—supplemented with courses in chemistry, physics, mathematics, and general engineering—provides a broad preparation for design, operation, and management in the chemical, biomedical, biological, nuclear, pharmaceutical, and energy-conversion industries, as well as graduate study leading to research positions in industry and government and to academic careers.

Program Contact Information
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hmartin02@ysu.edu

Dr. Byung-Wook Park - Assistant Professor  
(330) 941-3088
bwpark@ysu.edu

Dr. Douglas Price - Associate Professor and Program Coordinator
Educational Objectives

Graduates of the chemical engineering program at YSU:

- Pursue careers as practicing chemical engineers in chemical and energy-related industries as well as in areas of materials, environmental, and biomedical engineering and biotechnology.
- Demonstrate strong, functional command of chemical engineering fundamentals and hold safety as paramount in the operation and design of chemical processes.
- Are aware of the scope of the chemical engineering profession and its global opportunities and requirements.
- Exhibit professional responsibility and a sensitivity to a broad range of societal concerns including ethical, environmental, political, regulatory, and global issues in making decisions.

Mission

The mission of the Chemical Engineering program is to:

1. Offer a wide variety of electives to students according to the global trend in chemical engineering
2. Provide real world experiences to students through laboratory study and capstone experiences
3. Conduct research with faculty in the areas commonly associated with traditional chemical engineering disciplines and their impact on the local and global environment
4. Participate in interdisciplinary programs.

Admission into the Program

To be admitted into the program, students are required to have an overall GPA of 2.3 and a grade of "C" or higher in CHEM 1515/L, MATH 1571, and ENGL 1550. Students can only repeat these courses one time.

Graduation Policy

In addition to the overall recalculated "C" average required by the University, an unrecalculated "C" average in the major is required. Also, an unrecalculated "C" average in all engineering courses is required.

Student Outcomes

The curriculum is structured to achieve the following outcomes as prescribed by ABET:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Accreditation

The Chemical Engineering BE program has been accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org (http://www.abet.org/).

CHEMICAL ENGINEERING ANNUAL ENROLLMENT AND GRADUATION DATA

<table>
<thead>
<tr>
<th>Academic Year</th>
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<td>2019-2020</td>
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Co-Operative Education and Internships

The Chemical Engineering Program encourages all of its students to participate in co-ops and internships prior to graduation. Students should register with the STEM Office of Professional Practice in order to participate.

Facilities

The chemical engineering laboratories are well-equipped for undergraduate instruction and student and faculty research. The equipment includes fluid flow apparatus, concentric tube and plate and frame heat exchangers, thermal conductivity apparatus, boiling heat transfer apparatus, tray dryer, double effect evaporator, computer-controlled distillation tower, gas absorption and liquid-liquid extraction columns, chemical reactors, electrostatic particle separator, centrifuges, filter presses, and other miscellaneous equipment.

For more information, contact Douglas M. Price, Program Coordinator.

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General Education Requirements

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Select one Arts and Humanities:

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Chem 3719R  Chem 3719  Chem 3719L  
Chemistry Courses

MATH 2673  MATH 1571  & 1515L  CHEM 1515
Mathematics/Statistics Courses


general engineering courses

ENGR 1500  Engineering Orientation
ENGR 1550  Engineering Concepts
ENGR 1560  Engineering Computing

Chemical Engineering Courses

CHEN 2650  Computer Methods in Chemical Engineering
CHEN 2683  Chemical Engineering Principles 1
CHEN 2684  Chemical Engineering Principles 2
CHEN 3771  Chemical Engineering Thermodynamics 1
CHEN 5800A  Special Topics Thermo Dynamics Lab
CHEN 3785L  Transport Phenomena Laboratory
CHEN 3786  Transport Phenomena 1
CHEN 3787  Transport Phenomena 2/Unit Operations 1
CHEN 3787L  Unit Operations Laboratory 1
CHEN 4815  Unit Operations 2
CHEN 4815R  Unit Operations 2 Applications
CHEN 4880  Chemical Reactor Design 1
CHEN 4880R  Reactor Design Applications
CHEN 4882  Process Dynamics
CHEN 4887  Process and Plant Design 1
CHEN 4888  Process and Plant Design 2

Chemical Engineering Electives (select two courses from the following)

STEM 4890  STEM Internship
CHEN 2688  Energy Assessment
CHEN 4840  Biochemical Engineering Fundamentals
CHEN 3726  Elementary Nuclear Reactor Engineering
CHEN 4801  Chemical Engineering Projects
CHEN 5800  Special Topics
CHEN 5805  Principles of Biomedical Engineering
CHEN 5811  Advanced Transport Phenomena
CHEN 5820  Industrial Pollution Control
CHEN 5821  Fundamentals of Polymer Science
CHEN 5850  Industrial Processes
CHEN 5854  Corrosion Engineering
CHEN 5883  Mathematical Methods in Chemical Engineering
CHEN 6981  Advanced Chemical Reaction Engineering

Mathematics/Statistics Courses

MATH 1571  Calculus 1
MATH 1572  Calculus 2
MATH 2673  Calculus 3

Accelerated Honors Calculus 1 and 2 can be substituted for Calculus 1, 2, and 3

MATH 3705  Differential Equations

STAT 3743  Probability and Statistics

Chemistry Courses

CHEM 1515  General Chemistry 1
& 1515L  and General Chemistry 1 Laboratory
CHEM 1516  General Chemistry 2
& 1516L  and General Chemistry 2 Laboratory
CHEM 3719  Organic Chemistry 1
CHEM 3719L  Organic Chemistry 1 Laboratory
CHEM 3719R  Organic Chemistry Recitation 1
CHEM 3720  Organic Chemistry 2
CHEM 3720L  Organic Chemistry 2 Laboratory
CHEM 3720R  Organic Chemistry Recitation 2
CHEM 3739  Physical Chemistry 1
CHEM 4860  Regulatory Aspects of Industrial Chemistry

Physics Courses

PHYS 2610  General Physics 1
PHYS 2611  General Physics 2

Total Semester Hours 127-129

Year 1

Fall

S.H.

YSU 1500  Success Seminar
ENGL 1550  Writing 1
or ENGL 1549  Writing 1 with Support
ENGR 1500  Engineering Orientation
ENGR 1550  Engineering Concepts
CHEM 1515  General Chemistry 1
& 1515L  and General Chemistry 1 Laboratory
MATH 1571  Calculus 1
GER AH-1  Arts and Humanities Elective

Semester Hours 18-19

Spring

ENGL 1551  Writing 2
CMST 1545  Communication Foundations
ENGR 1560  Engineering Computing
CHEM 1516  General Chemistry 2
& 1516L  and General Chemistry 2 Laboratory
MATH 1572  Calculus 2

Semester Hours 16

Year 2

Fall

S.H.

CHEM 3719  Organic Chemistry 1
& 3719L  and Organic Chemistry 1 Laboratory
CHEM 3719L  Organic Chemistry 1 Laboratory
CHEM 3719R  Organic Chemistry Recitation 1
MATH 2673  Calculus 3
PHYS 2610  General Physics 1
CHEN 2683  Chemical Engineering Principles 1

Semester Hours 16

Spring

CHEM 3720  Organic Chemistry 2
& 3720L  and Organic Chemistry 2 Laboratory
CHEM 3720L  Organic Chemistry 2 Laboratory
CHEM 3720R  Organic Chemistry Recitation 2
MATH 3705  Differential Equations
PHYS 2611  General Physics 2
CHEN 2684  Chemical Engineering Principles 2
CHEN 2650  Computer Methods in Chemical Engineering

Semester Hours 17

Year 3

Fall

S.H.

CHEM 3739  Physical Chemistry 1

Stat 3743  Probability and Statistics

Chem 3771  Chemical Engineering Principles 1

CHEM 5800A  Special Topics Thermo Dynamics Lab
Bachelor of Engineering in Chemical Engineering

CHEN 3786 Transport Phenomena 1

Semester Hours 4

Spring
GER SS-1 Social Science Elective
GER SPA-1 Social and Personal Awareness Elective
CHEN 3787 Transport Phenomena 2/Unit Operations 1
CHEM 4860 Regulatory Aspects of Industrial Chemistry
CHEN 4880 Chemical Reactor Design 1
CHEN 4880R Reactor Design Applications
CHEN 3785L Transport Phenomena Laboratory

Semester Hours 15

Fall
GER AH-2 Arts and Humanities Elective: Ethics
CHEN 3787L Unit Operations Laboratory 1
CHEN 4815 Unit Operations 2
CHEN 4815R Unit Operations 2 Applications
CHEN 4887 Process and Plant Design 1
CHEN Elective-1 Chemical Engineering Elective

Semester Hours 14

Year 4
Fall
GER AH-2 Arts and Humanities Elective: Ethics
CHEN 3787L Unit Operations Laboratory 1
CHEN 4815 Unit Operations 2
CHEN 4815R Unit Operations 2 Applications
CHEN 4887 Process and Plant Design 1
CHEN Elective-1 Chemical Engineering Elective

Semester Hours 16

Total Semester Hours 128-129

Note: Transfer students from any two- or four-year academic program at other institutions or at this University who wish to pursue studies in chemical engineering should consult with the program coordinator for individual counseling to develop a program of study that fully uses their educational background and requires a minimum of time to satisfy the requirements for the degree of Bachelor of Engineering in chemical engineering.

COURSE TITLE S.H.
1. Ethics Elective 3
Select one of the following:
PHIL 1561 Technology and Human Values
PHIL 2625 Introduction to Professional Ethics
PHIL 2626 Engineering Ethics
PHIL 2628 Business Ethics

2. Chemical Engineering Elective 6
Select 2 courses from the following:
STEM 4890 STEM Internship
CHEN 2688 Energy Assessment
CHEN 4840 Biochemical Engineering Fundamentals
CHEN 3726 Elementary Nuclear Reactor Engineering
CHEN 4801 Chemical Engineering Projects
CHEN 5800 Special Topics
CHEN 5805 Principles of Biomedical Engineering
CHEN 5811 Advanced Transport Phenomena
CHEN 5820 Industrial Pollution Control
CHEN 5921 Fundamentals of Polymer Science
CHEN 5950 Industrial Processes

2. Chemical Engineering Elective 6
CHEN 5854 Corrosion Engineering
CHEN 5883 Mathematical Methods in Chemical Engineering
CHEN 6981 Advanced Chemical Reaction Engineering

ENGR 1500 Engineering Orientation 1 s.h.
Introduction to engineering careers and the different engineering disciplines. Academic success strategies and university resources to support student success.

ENGR 1550 Engineering Concepts 2 s.h.
Introduction to the basic skills needed in engineering including engineering computing and an introduction to the engineering design process utilizing science, technology, engineering, and mathematics (STEM) fundamentals. One hour lecture and three hours laboratory per week.

ENGR 1515 General Chemistry 1 3 s.h.
An introduction to the fundamental principles of chemistry, including measurement and calculation; chemical stoichiometry; the properties of gases; atomic and molecular structure; bonding; thermochemistry; and periodic properties. Intended for majors in the natural sciences and engineering. Three hours lecture.

ENGR 1516 General Chemistry 2 3 s.h.
A continuation of the study of the principles of chemistry, including solution properties; acids and bases; chemical equilibrium; thermodynamics; reaction kinetics; and electrochemistry. Intended for majors in the natural sciences and engineering. Three hours lecture.

ENGR 1550, MATH 1571 or concurrent.

CHEM 1515L General Chemistry 1 Laboratory 1 s.h.
Quantitative experiments focusing on topics covered in CHEM 1515 lectures. Three hours lab.

CHEM 1516 General Chemistry 2 3 s.h.
Advanced Chemical Reaction Engineering
Mathematical Methods in Chemical Engineering
Corrosion Engineering

516
CHEM 3739  Physical Chemistry 1  3 s.h.
Principles and applications of thermodynamics and kinetics to chemical systems.
Prereq.: "C" or better in CHEM 3720, PHYS 2610, MATH 1572.

CHEM 4860  Regulatory Aspects of Industrial Chemistry  2 s.h.
Roles and responsibilities of industrial chemists. Industrial hygiene and safety.
Industrial chemical processes, their waste products, their environmental effects, and the treatment of pollutants. Governmental regulations relating to waste disposal, product safety, occupational safety, resource conservation, environmental protection, and problems of awareness and compliance.
Prereq.: CHEM 3720.

MATH 1571  Calculus 1  4 s.h.
This course is an introduction to calculus. The main concepts to be studied are limits, continuity, rates of change, derivatives, integrals and applications.
Prereq.: At least Level 70 on the YSU Mathematics Placement Test or C or better in either MATH 1510 and MATH 1511, MATH 1510C and MATH 1511C, or MATH 1513.
Gen Ed: Mathematics.

MATH 1572  Calculus 2  4 s.h.
A sequence of integrated courses in analytic geometry and calculus. A detailed study of limits, derivatives, and integrals of functions of one and several variables with applications.
Prereq.: C or better in MATH 1571, 1571H, or 1581H.
Gen Ed: Mathematics.

MATH 2673  Calculus 3  4 s.h.
A sequence of integrated courses in analytic geometry and calculus. A detailed study of limits, derivatives, and integrals of functions of one and several variables with applications.
Prereq.: MATH 1572 with a "C" or better.

MATH 3705  Differential Equations  3 s.h.
Prereq.: C or better in one of MATH 2673, MATH 2673H, or MATH 2686H.

PHYS 2610  General Physics 1  4 s.h.
A course in mechanics; the kinematics and dynamics of masses in translation and rotation; Newton's Laws; gravity; the conservation laws of energy and momentum; simple harmonic motion and introduction to wave motion and sound.
Prereq.: High school physics or PHYS 1501.
Prereq. or concurrent: MATH 1571.
Gen Ed: Natural Science.

PHYS 2611  General Physics 2  4 s.h.
Study of electric and magnetic fields and their effects; introduction to electric circuits; light as an electromagnetic wave; introduction to geometrical and physical optics.
Prereq.: PHYS 2610.
Prereq. or concurrent: MATH 1572.
Gen Ed: Natural Science.

CHEN 2650  Computer Methods in Chemical Engineering  2 s.h.
Application of computational software packages and spreadsheets to solve chemical engineering programs. Utilization of process simulation packages. Real-time computing applications in laboratory automation.
Prereq.: ENGR 1550, ENGR 1550H or consent of instructor.

CHEN 2683  Chemical Engineering Principles 1  3 s.h.
Prereq.: MATH 1571, MATH 1571H or MATH 1585H, CHEM 1515, MATH 2673 or MATH 2686H and CHEN 2684.

CHEN 2684  Chemical Engineering Principles 2  3 s.h.
Prereq.: CHEN 2683.

CHEN 3771  Chemical Engineering Thermodynamics 1  3 s.h.
Development of the concepts and formalisms of thermodynamics and their applications to chemical engineering systems. Real and ideal behavior of single and multicomponent systems. Introduction to the thermodynamics of phase equilibria. Analysis and design of thermal systems. Additional topics include applications in transport phenomena and plant design.
Prereq.: MATH 2673 or MATH 2686H and CHEN 2684.

CHEN 3785L  Transport Phenomena Laboratory 1  1 s.h.
Experimental studies of transport properties and momentum, energy and mass transfer using industrial type equipment. Correlation of data and comparison with theory. Oral presentations and preparation of technical reports. Three hours laboratory.
Prereq.: CHEN 3786 or concurrent.

CHEN 3787  Transport Phenomena 2/Unit Operations 1  3 s.h.
Mass transfer processes. Diffusional operations and separation processes with emphasis on evaporation, humidification and drying. Derivation of design equations from mass and energy balances, and application to equipment design. Solution of simultaneous differential equations of mass, momentum, and energy.
Prereq.: CHEN 3786.

CHEN 3787L  Unit Operations Laboratory 1  1 s.h.
Experiments in absorption, cascade operations, reaction kinetics, mixing and other chemical engineering operations employing industrial and pilot plant size equipment and instrumentation. Treatment of experimental data, correlations and comparison with theory. Oral presentations and preparation of technical reports. Three hour laboratory.
Prereq.: CHEN 3787.

CHEN 4815  Unit Operations 2  3 s.h.
Gas absorption and desorption, interphase mass transfer processes, liquid extraction and leaching. Physical separation processes including filtration, settling, and size reduction. Derivation of the design equations for the above processes, and applications of the design equations to equipment design.
Prereq.: CHEN 3787.

CHEN 4815L  Unit Operations Laboratory 2  1 s.h.
Experiments in absorption, cascade operations, reaction kinetics, mixing and other chemical engineering operations employing industrial and pilot plant size equipment and instrumentation. Treatment of experimental data, correlations and comparison with theory. Oral presentations and preparation of technical reports. Three hour laboratory.
Prereq.: CHEN 4815.

CHEN 4880  Chemical Reactor Design 1  3 s.h.
Chemical reaction equilibria. Theoretical developments and methods of interpreting experimental data pertaining to chemical kinetics. General design principles and construction features of reactors with application of these principles to the design of specific reactors.
Prereq.: CHEN 3771.

CHEN 4882  Process Dynamics 3 s.h.
Introduction to automatic control and control loop concepts. Laplace transform techniques. Linear open-loop and closed-loop systems. Root-locus and frequency response methods. Design of control systems.
Prereq.: CHEN 3786.

CHEN 4887  Process and Plant Design 1  3 s.h.
An examination of engineering economic analysis to include: cost estimation, profitability, optimum design, principles of fixed and operating costs, materials and site selection, and general and specialized design techniques.
Prereq.: CHEN 3787 Minimum grade of C, CHEN 4880 Minimum grade of C and unrecalculated GPA of 2.0 or better in major courses.
CHEN 4888 Process and Plant Design 2  3 s.h.
The application of chemical engineering and cost principles to the component design and selection of process equipment. The application of chemical engineering and cost principles to the design of chemical plants and processes including societal aesthetic, environmental, and safety considerations.
Prereq.: CHEN 4887 minimum grade of C.

Student Outcomes
1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Bachelor of Engineering in Civil Engineering

Welcome from the Program Coordinator
Civil engineers are responsible for planning, designing, and supervising construction of infrastructure including buildings, bridges, highways, levees, dams, drinking water and wastewater treatment facilities, ports, railroads, airports, etc. The undergraduate program in Civil Engineering (CE) at YSU offers a Bachelor of Engineering (B.E.) in Civil Engineering degree through an ABET accredited curriculum designed for graduation in four years. Students receive a fundamental background in math and science to prepare for core courses in civil engineering. Our students not only learn from faculty lectures, but also gain real-world experience through co-ops/internships, undergraduate research and laboratory activities.

Civil engineers make the world better. With that philosophy in mind, we educate our students to undertake challenging civil engineering jobs and leadership roles in building our community and infrastructure. At the time of graduation, our students are well-prepared to enter the workforce in all five sub-disciplines of civil engineering including structural, transportation, geotechnical, water resources, and environmental. Faculty members have the highest degree in their respective sub-discipline and the professional engineering licensure that requires them to remain active in the profession through continuing education.

Our CE students are engaged in real-world projects through participating in the ASCE Student Chapter activities. They design and build steel bridges and concrete canoes from scratch every year, and compete in the regional and national competitions. YSU Steel Bridge team ranked third in the 2019 National Student Steel Bridge Competition. Moreover, CE students have plenty of networking opportunities through active participation in the chapter activities, internships and co-ops.

For more information about the CE program at YSU, please contact:

Anwarul Islam, PhD, PE, FASCE
Professor and Program Coordinator
Civil Engineering

Mission
The mission of the Civil Engineering program is to:
1. offer high-quality bachelor’s degree in civil engineering that encompasses basic engineering sciences, as well as both traditional and emerging areas of the discipline;
2. prepare graduates to adapt to global and domestic engineering challenges and changing industry practices;
3. foster student-faculty relationships that enrich teaching and learning, develop scholarship, and encourage public service;
4. maintain an academic structure characterized by integrity, and by respect for students, society, the environment, and the civil engineering profession;
5. prepare graduates for, and facilitate, lifelong intellectual and professional development;
6. contribute to economic prosperity of the region, state, and nation by enhancing the size and competitiveness of the civil engineering workforce.

Program Educational Objectives
The Civil Engineering program will provide graduates with the foundation of knowledge and skills necessary for productive and rewarding careers. The program prepares graduate to achieve the following educational objectives within a few years after graduation:
1. Perform essential functions on multidisciplinary teams in their professional careers in civil engineering.
2. Demonstrate necessary communication, management, leadership, and interdisciplinary technical skills to excel in engineering and non-engineering sectors.
3. Continue their intellectual, social, and professional growth through lifelong learning.
4. Obtain professional engineering licensure.

Student Outcomes
The YSU undergraduate program in Civil Engineering adopted the following student outcomes that prepare its graduates to attain the program educational objectives listed above. At the time of graduation, the program graduates should have:
1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics;
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors;
3. an ability to communicate effectively with a range of audiences;
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts;
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions;
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
Program Description and Accreditation

In the first two years of the program, students take coursework in the fundamentals of engineering, mathematics and basic science in order to strengthen their technical background and develop intellectual maturity. They continue in a broad-based civil engineering program that helps them develop competence in a variety of areas within the discipline. Topics include structural, geotechnical, transportation, environmental, and water resources engineering, as well as surveying and construction management. In their last two years, students choose elective courses in various sub-disciplines of civil engineering based on their academic and career interests.

Instruction on the design process is fully integrated throughout the curriculum to foster the depth of understanding and self-confidence that students will need to think creatively and become productive engineers. The curriculum is based on the fundamental concept that students can best develop their creative skills through a series of progressively more demanding design experiences leading up to a major, comprehensive senior-level complex engineering design project.

Students in the CE program earn a Bachelor of Engineering in Civil Engineering degree. Graduates are prepared for advanced studies at the master’s and doctoral levels in engineering, or for employment in the engineering profession.

The CE program offers the atmosphere of a small school in maintaining close contact between faculty and students. Faculty members serve as academic advisors and are engaged in all phases of instruction from freshman to graduation. All of the facilities of the CE program are located within Moser Hall. The program maintains laboratories for strength of materials, concrete testing, soil mechanics, surveying, environmental engineering, and fluid mechanics — all in Moser Hall. A wide variety of equipment is available these laboratories to support both teaching and research activities.

The YSU undergraduate program in Civil Engineering has been accredited by the Engineering Accreditation Commission (EAC) of ABET, http://www.abet.org.

Civil Engineering Faculty

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Moser 2430
(330) 941-1740
sehsani@ysu.edu (jkjung@ysu.edu)

Civil Engineering Annual Enrollment and Graduation Data

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Co-ops/Internships in Civil Engineering

The Civil Engineering program strongly encourages its students to participate in co-ops and internships. A co-op is defined as a structured developmental program with increasing responsibilities in a full time position. An internship is a project-specific learning program that lasts several weeks to a semester. Students can work full-time or part-time as an intern while attending classes. Appropriate academic credits are awarded for both co-ops and internships, although those credits are not counted towards the Civil Engineering degree. Students should register with the STEM Professional Services office in order to participate in co-ops and internships.

For more information on co-ops and internships, contact Anwarul Islam, Professor and Program Coordinator of Civil Engineering.

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CEEN 3749L Structural Analysis 1 Lab 1
CEEN 3736 Fundamentals of Environmental Engineering 3
ISEN 3710 Engineering Statistics 3

Semester Hours 17

Spring
CEEN 3717 Hydraulic Design 4
CEEN 4881 Geotechnical Engineering 3
CEEN 4881L Geotechnical Lab 1
CEEN Elective-1: CE Design Elective 3
GER SS-2: Social Science Elective 3
GER SPA-1: Social & Personal Awareness Elective 3

Semester Hours 17

Year 4
Fall
CEEN 5855 Reinforced Concrete Design 3
CEEN 5856 Steel Design 3
CEEN Elective-2: CE Elective 3
CEEN 4812 Construction Management 3
ISEN 3724 Engineering Economy 3

Semester Hours 15

Spring
CEEN 4863 Integrated Design Project 3
MECH 2641 Dynamics 3
CEEN Elective-3: CE Elective. May substitute with approval of CE Program Coordinator.
GER AH-2: Arts & Humanities Elective. Select either
PHIL 2625 or PHIL 2625
or PHIL 2628 or Business Ethics 3
PHIL 2625 Introduction to Professional Ethics or Engineering Ethics
PHIL 2628
GER SPA-2: Social & Personal Awareness Elective 3

Semester Hours 15

Total Semester Hours 128

Student Outcomes

The YSU undergraduate program in Civil Engineering adopted the following student outcomes that prepare its graduates to attain the program educational objectives listed above. At the time of graduation, the program graduates should have:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

CEEN 2601 Statics 3 s.h.
Principles of engineering mechanics as applied to statics with vector applications to forces and moments; centroid and center of gravity; equilibrium; friction; moments of inertia: relationship between loads, stress and strain in tension, compression, torsion and bending.
Prereq.: MATH 1572 or MATH 1572H; PHYS 2610 or concurrent.

CEEN 2602 Strength of Materials 3 s.h.
Relationships between loads, shear and bending moments in beams; combined stresses in beams; indeterminate beam analysis; virtual load; connections; columns.
Prereq.: CEEN 2601.

CEEN 2602L Strength of Materials Lab 1 s.h.
Experimental verification of strength of materials: testing; tension, torsion, non-destructive tests of steel; concrete compression and Poisson ration, wood tests.
Coreq.: CEEN 2602.

CEEN 2610 Surveying 3 s.h.
The theory of surveying and the use of instruments. Problems in leveling, traversing, and topography. Introduction to circular and vertical curves.
Prereq.: MATH 1513 or equivalent.

CEEN 2610L Surveying Laboratory 1 s.h.
Field surveying principles and techniques. Uses of transit and level are stressed. Three laboratory hours per week.
Coreq.: CEEN 2610.

CEEN 2660 Computer Aided Design and Drafting 2 s.h.
This course is designed for students who wish to be involved with the civil engineering design fields and for those interested in computer aided design and drafting. Students will be introduced to both traditional and computer aided design and drafting skills. The aim of this course is to introduce students to basic information, skills, and concepts related to drafting and design. Special attention is given to: sketching, measurement, room planning, multi-view drawing, auxilary views, working drawings, sectional views, orthographic drawings along with AutoCAD tools and commands. The course includes 1 s.h. lecture and 1 s.h. lab.

CEEN 3710 Civil Engineering Materials 3 s.h.
A study of the principal materials used for civil engineering and construction purposes, with special attention paid to physical and mechanical properties of the materials and their importance to the engineer.
Prereq.: CEEN 2602.

CEEN 3711 Technology and Society 3 s.h.
A critical exploration of how societal needs affect the creation of technologies and how technology affects society. The course is interdisciplinary in nature and presents various approaches to examining the complex interaction between humans and their tools. Topics include: (1) technology in human history; (2) society, science, and technology development; (3) technology and social change; (4) technology, knowledge, and power; (5) technology, population, and the environment. Listed also as SOC 3789.
Prereq.: Junior standing or consent of instructor.

CEEN 3716 Fluid Mechanics 3 s.h.
Proportions of fluids, fluid statics, kinematics; Bernoulli equation; fluid momentum; laminar and turbulent flow through simple pipes; boundary layers; dimensional analysis and similitude.
Prereq.: CEEN 2602.

CEEN 3716L Fluid Mechanics Lab 1 s.h.
Experimental verification of the principles of fluid mechanics as applied to incompressible fluid. Three hours laboratory per week.
Prereq.: CEEN 2602.
Coreq.: CEEN 3716.

CEEN 3717 Hydraulic Design 4 s.h.
Analysis of flow in complex pipe systems; pumps; open channel flow; culverts; spillways; storm water drainage. Three hours lecture and three hours of computational laboratory per week.
Prereq.: CEEN 2610 and CEEN 3716.
CEEN 3720 Transportation Engineering 3 s.h.
Introductory survey of transportation topics including transportation systems, vehicular operation and control, and transportation planning techniques; introduction to design of highways, airports, and railroads; and traffic engineering.
Prereq.: CEEN 2610.

CEEN 3736 Fundamentals of Environmental Engineering 3 s.h.
Causes and effects of water, air, and land pollution; measurements of environmental quality; environmental regulations; introduction to methods of pollution control.
Prereq.: CEEN 2615.

CEEN 3749 Structural Analysis 1 3 s.h.
The determination of shears, moments, and stresses in statically determinate beams, frames, and trusses. Consideration of dead, live, moving, and wind loads. Elastic deflections of simple structures. Introduction to the analysis of statically indeterminate structures using numerical and energy methods.
Prereq.: CEEN 2602.

CEEN 3749L Structural Analysis 1 Lab 1 s.h.
Introduction to stiffness-based analysis of determinate and indeterminate structures. Computer analysis of various structural systems, including plane and space frames, continuous beams, plates, and space frames. P-delta stability analysis of frames. Three hours computational lab per week.
Prereq.: CEEN 2602; concurrent with CEEN 3749.

CEEN 3751 Water Quality Analysis 3 s.h.
Introduction to physical, chemical, and biological measurements of water quality. Sample collection and laboratory analysis of natural waters, drinking water, and wastewater. Interpretation of environmental data. Two hours lecture and three hours laboratory per week. Identical to ENST 3751.
Prereq.: CEEN 3736 or ENST 2600; CHEM 1515.

CEEN 3751L Water Quality Analysis Lab 0 s.h.
Laboratory experience in the analysis of natural waters, drinking water and wastewater. Emphasizes procedures for the collection and interpretation of data on current environmental problems. Three hours laboratory per week. Must be taken concurrently with CEEN 3751.

CEEN 4800 Special Topics 3 s.h.
Special topics and new developments in Civil Engineering. Subject matter, credit hours, and special prerequisites to be announced in advance of each offering. May be repeated to a maximum of 6 s.h.
Prereq.: Senior standing or consent of instructor.

CEEN 4812 Construction Management 3 s.h.
Fundamentals of construction management: contracts, bonding, estimating, organization, finance, cost and productivity of equipment, material, and labor; and project planning and scheduling.
Prereq.: CEEN 3717 or CEEN 4881.

CEEN 4835 Highway Design 3 s.h.
Methods of highway route location; design methods and standards for highways, intersections, freeways, and interchanges. Includes extensive use of computer-aided design.
Prereq.: CEEN 3720.

CEEN 4863 Integrated Design Project 3 s.h.
Students will be required to complete a meaningful design experience that focuses attention on professional practice and is predicated on the accumulated background of curriculum components. Two hours of lecture and three hours of laboratory a week.
Prereq.: CEEN 5855 and GPA of 2.0 or better.
Gen Ed: Capstone.

CEEN 4879 Civil Engineering Analysis 3 s.h.
Application of mathematical and numerical methods to the systematic analysis and development of problems in the field of Civil Engineering.
Prereq.: CEEN 3749.

CEEN 4881 Geotechnical Engineering 3 s.h.
Properties of soil, classification, capillarity, seepage, permeability, stresses, consolidation, shear strength; analysis and design of foundation structures, retaining walls, piles, drilled piers, sheet pile walls, special footings, stability.
Prereq.: MATH 2673; CEEN 3749.

CEEN 4881L Geotechnical Lab 1 s.h.
Typical soil testing procedures and physical testing of soil samples.
Prereq.: Concurrent with: CEEN 4881.

CEEN 5820 Pavement Material and Design 3 s.h.
Design methods for flexible, rigid and other wheel-supporting pavements to include investigation, testing and preparation of subgrade, base course and pavement materials, design of various pavement mixtures, stresses in pavements, pavement design, and strengthening existing pavements.
Prereq.: CEEN 3720 and CEEN 4881.

CEEN 5829 Civil Engineering Materials - Concrete 3 s.h.
A course designed to broaden the student's understanding of Portland Cement Concrete as a construction material. Topics include the study of cement, hydration of cement, aggregates, admixtures for concrete, mix design handling and placing, curing and properties of Portland Cement Concrete. Testing of Concrete, quality control and special concretes are also included. A library research paper on a concrete-related topic of the student's choice is required.
Prereq.: CEEN 3749 or permission of instructor.

CEEN 5832 Natural Systems Engineering 3 s.h.
Introduction to the features, functions and values of natural aquatic systems, and engineering approaches to analysis and restoration design. Focus on wetlands and streams. Topics include regulations, wetland delineation, constructed wetland design, basic stream geomorphology, and stream restoration design.
Prereq.: CEEN 3736 or permission of instructor.

CEEN 5836 Environmental Water Chemistry 3 s.h.
Fundamental principles and calculations of major chemical reactions and equilibriums that occur in aquatic environments, and water/wastewater treatment processes.
Prereq.: CEEN 3736.

CEEN 5837 Environmental Engineering Design 3 s.h.
Theory and design of unit operations and processes for treatment of drinking water and municipal wastewater.
Prereq.: CEEN 3736.

CEEN 5849 Structural Analysis 2 3 s.h.
Analysis of statically indeterminate beams, trusses, bents and multistory frames, utilizing concepts of strain energy, virtual work, slope-deflection, and moment distribution. Introduction to matrix methods of analysis using force and displacement methods.
Prereq.: CEEN 3749.

CEEN 5855 Reinforced Concrete Design 3 s.h.
An introduction to the behavior, analysis, and design of reinforced concrete members. Included are singly and doubly reinforced beams, tee-beams, slabs, short and long columns.
Prereq.: CEEN 3749.

CEEN 5856 Steel Design 3 s.h.
An introduction to the behavior and design of steel structures. Included is the design of rolled and built-up tension members, beams, columns, beam-columns, welded and bolted connections.
Prereq.: CEEN 3749.

CEEN 5869 Design of Air Pollution Control Systems 3 s.h.
Engineering analysis, procedures, and techniques for the selection, applications and operation of air pollution control methods in various operational situations.
Prereq.: CEEN 3736.

CEEN 5877 Systems Engineering and Project Management 3 s.h.
Systems approach to engineering design; non-linear models; linear programming; dynamic programming; network analysis; project management.
Prereq.: MATH 3705.
Within a few years of graduation, our graduates should be able to:

Program Educational Objectives are established for the Electrical Engineering Technology, Engineering, and Mathematics, and the University, the following fulfillment of its mission, as well as the missions of the College of Science, University offers students a high standard of engineering education. In 

The Electrical and Computer Engineering program at Youngstown State University maintains well-equipped laboratory facilities for circuits, electronics, communications, electromagnetics, energy conversion, power systems, control systems, and

CEEN 5880 Advanced Hydraulics 3 s.h.
Application of hydraulic principles for one dimensional river modeling; understanding the fundamental processes of open channel hydraulics; application of HEC-RAS/HEC-GeoRAS models for river system modeling.
Prereq.: A “C” or better in CEEN 3717.

CEEN 5882 Foundation Engineering 3 s.h.
Analysis and design of various foundations, including abutments, piers, piles, and footings; slope stability of embankments.
Prereq.: CEEN 4881 and CEEN 5855.

CEEN 5883 Bridge Engineering 3 s.h.
Analysis and design of concrete and steel bridges; specifications and code requirements; design detailing; effects of natural and man-made hazards on bridges; implications of bridge failures.
Prereq.: CEEN 5855 and CEEN 5856.

CEEN 5884 Solid and Hazardous Waste Management 3 s.h.
Sources, characteristics, handling and disposal options for solid waste and hazardous waste; topics include regulations, health effects, waste minimization, collection systems, landfill design, treatment and processing methods, and site assessment.
Prereq.: CEEN 3736.

Electrical and Computer Engineering
(330) 941-3012

This program offers coursework leading to the Bachelor of Engineering with a major in electrical engineering. Traditional, computer/digital, and biomedical options are available. The first courses in the electrical and computer engineering are ECEN 1521 Digital Circuits and ECEN 1521L Digital Circuits Laboratory, and are available to all University students without prerequisites. Visit the office or website for details.

Mission
The Electrical and Computer Engineering program is committed to academic excellence, and it provides educational opportunities in electrical and computer engineering. We provide students at baccalaureate and master levels with diverse and comprehensive educational experiences which meet the highly demanding standards required by industry and preparation for further education.

We utilize the resources of the university and interact with industry to evaluate, optimize, and upgrade our teaching, research, scholarship, service and facilities to continue offering a high-standard educational environment. We promote students’ intellectual growth to become fully developed, informed, and productive in order to serve themselves and their local and global communities effectively.

Program Educational Objectives
The Electrical and Computer Engineering program at Youngstown State University offers students a high standard of engineering education. In fulfillment of its mission, as well as the missions of the College of Science, Technology, Engineering, and Mathematics, and the University, the following Program Educational Objectives are established for the Electrical Engineering Program.

Within a few years of graduation, our graduates should be able to:

• Competently design, analyze, test, and implement systems and devices in the field of electrical engineering within the constraints set by the client and by society, and disseminate the results.
• Practice engineering ethically and responsibly, both individually and within diverse teams, while holding paramount the impact of engineering decisions on society and ecology.
• Commit to a career long dedication to growth through continued learning in their engineering profession and/or pursuit of post graduate education,

and to demonstrate leadership and influence within their employer’s organization.

Student Outcomes
The following (1 through 7) Student Outcomes support the program educational objectives. Attainment of these outcomes by students by the time of their graduation prepares graduating students to enter the professional practice of engineering.

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Electrical Engineering Annual Enrollment and Graduation Data
The Electrical Engineering BE Program has been accredited by the engineering accreditation commission of ABET, http://www.abet.org/.

Term Enrollment
Fall 2012 103
Fall 2013 103
Fall 2014 117
Fall 2015 108
Fall 2016 123
Fall 2017 123
Fall 2018 141

Academic Year Degrees Awarded
2012-2013 19
2013-2014 16
2014-2015 29
2015-2016 23
2016-2017 35
2017-2018 30

Laboratory Facilities
The Electrical and Computer Engineering program maintains well-equipped laboratory facilities for circuits, electronics, communications, electromagnetics, energy conversion, power systems, control systems, and
digital systems. PC computing and wireless networking are available, as well as various licensed software packages.

**Professional Practice**

The Electrical and Computer Engineering program participates in the College of STEM Professional Practice Program.

Students who complete course and internship requirements related to the field may receive up to 2 s.h. of credit toward ECEN elective courses. Contact the department for details.

**Tracks**

Traditional, computer/digital, and biomedical options with design projects, computer simulation, and hands-on laboratory sessions are the pillars of the Bachelor of Engineering with a major in electrical engineering. These features provide students with the opportunity to prepare for a vast array of entry-level positions or advanced studies.

With faculty assistance, students tailor their programs to meet their educational objectives. This individualized approach includes choices of options and elective courses, participation in a co-op, and semester-by-semester scheduling of courses.

**Traditional TRACK**

The traditional option:

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**Computer/digital TRACK**

The computer/digital option:

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<tr>
<td>Math</td>
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<td>Writing and Speech</td>
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**Biomedical TRACK**

The biomedical option:

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Students in any of these options can participate in the co-op program. Scheduling is reasonably flexible, but there are some restrictions.

**Course Scheduling**

Scheduling of courses will depend upon your particular situation. Are you working part time? Will you pursue an internship? Do you wish a full- or part-time academic pursuit of the degree? Answers to these questions will affect your scheduling of courses. The Electrical and Computer Engineering program attempts to schedule junior and senior courses to accommodate these situations.

Advising is mandatory, and students are required to meet with their department advisors to choose their semester-by-semester courses. Also, up-to-date recommended schedule and curriculum lists are available on-line and at the department office.

For more information, visit Electrical Engineering Major (https://ysu.edu/academics/science-technology-engineering-mathematics/electrical-engineering-major/).

**Chair**

Frank Xiying Li, Ph.D., Professor, Chair

**Professor**

Farzad Ahmadi, Ph.D., Assistant Professor

Vamsi Borra, Ph.D., Assistant Professor

Michael Ekoniak, Ph.D., Assistant Professor

Jalal Jalali, Ph.D., Professor

Eric MacDonald, Ph.D., Professor

**Lecturer**

Edward Burden, M.S., Lecturer

Claudio S. Freitas, Ph.D., Lecturer

Teresa Ren, M.S., Lecturer

**Major**

- Electrical Engineering (p. 530)

**Major Tracks**

- Electrical Engineering, Traditional Track (p. 530)
- Electrical Engineering, Computer/Digital Track (p. 528)
- Electrical Engineering, Biomedical Track (p. 527)

**Minor**

- Minor in Electrical and Computer Engineering (p. 532)
- Minor in Mathematics (p. 489)

**ECEN 1521 Digital Circuits**  3 s.h.

Digital concepts and design techniques; number systems, switching algebra, logic gates, truth tables. Combinational logic circuits with an introduction to sequential circuits. Practical applications.

**ECEN 1521L Digital Circuits Laboratory**  1 s.h.

Laboratory exercises to accompany ECEN 1521. Design and testing of combinational and sequential logic circuits. Experiments with digital hardware.

**Prereq. or concurrent:** ECEN 1521.
ECEN 1555 Computer Engineering 3 s.h.
Introduction to the personal computer, applications software, technologies, microprocessors, microcomputer programming and applications. Basic operations of digital circuits, interfacing using integrated chips, and analog computers. Experiments accompany lectures, providing practical experience for students.

ECEN 1560 Electrical Engineering Computing 2 s.h.
Problem solving techniques for the fields of electrical and computer engineering; procedural program development using the C/C++ programming language. Fundamentals of engineering drawing using AutoCAD commercial software packages. One hour lecture, three hours lab. ENGR 1555 may be taken concurrently.
Prereq.: MATH 1571 or concurrent high school technical drawing proficiency or ENGR 1555.

ECEN 2610 Computer Tools for Electrical and Computer Engineering 1 s.h.
Introduction to software packages and resources such as MATLAB, PSpice, and Quartus II for analysis and design of circuits and systems. Prereq. or Concurrent: ECEN 2632 and ECEN 2611.

ECEN 2611 Instrumentation and Computation Lab 1 1 s.h.
Laboratory experiments and computer exercises to accompany ECEN 2632. Laboratory experimentation and basic instrumentation. Computer-aided analysis and simulation.
Prereq. or concurrent ECEN 2632.

ECEN 2612 Instrumentation and Computation Lab 2 1 s.h.
Laboratory experiments and computer exercises to accompany ECEN 2633. Laboratory experimentation and basic instrumentation. Computer-aided analysis and simulation.
Prereq.: ECEN 2611.
Prereq. or concurrent: ECEN 2633.

ECEN 2614 Basics of Electrical Engineering 3 s.h.
Introduction to electrical circuit elements and laws; DC and AC analysis. Introduction to digital devices and circuits with applications. Applications of electromagnetics. Intended for non-electrical engineering majors.
Prereq.: MATH 1571.

ECEN 2632 Basic Circuit Theory 1 3 s.h.
Prereq. or concurrent: MATH 1572.

ECEN 2633 Basic Circuit Theory 2 3 s.h.
Prereq.: ECEN 2632.
Prereq. or concurrent: MATH 2673.

ECEN 3710 Signals and Systems 3 s.h.
Operation and analysis of communication, control, and computer systems at the signal level. Computer aided design tools and methods to analyze signals and systems. Continuous and discrete-time transforms. Noise analysis, signal detections, line codes, and multiplexing.
Prereq.: ECEN 2633, ECEN 1521 and MATH 3705.

ECEN 3711 Intermediate Laboratory 1 1 s.h.
Laboratory experiments and computer exercises in the areas of digital and analog electronics and logic and computer circuits. Designed to accompany the co-requisite courses.
Prereq.: ECEN 2612.
Prereq. or concurrent: ECEN 3733 and ECEN 3771.

ECEN 3712 Intermediate Laboratory 2 1 s.h.
Laboratory experiments and computer exercises in the areas of digital and analog electronics, logic and computer circuits, and electromagnetics. Designed to accompany the co-requisite courses.
Prereq.: ECEN 3711.
Prereq. or concurrent: ECEN 3742 and either ECEN 3772 or ECEN 3734.

ECEN 3717 Sensor Fundamentals 3 s.h.
Basic principles of sensors such as electro-chemical, -mechanical, -optical, and -thermal transducers. Signal conditioning and smart sensors. Applications to process control and environmental systems.
Prereq.: MATH 3705, and either PHYS 2611 or ECEN 2632.

ECEN 3730 Microprocessors and Microcontrollers 3 s.h.
Organization and structured assembly language programming. Digital controller devices and their relationships to processors and physical environments. Two hours lecture and three hours laboratory per week.
Prereq.: ECEN 3733.

ECEN 3733 Digital Circuit Design 3 s.h.
Modern digital circuit analysis and design. Latches, flip-flops, registers, counters, memories, programmable logic arrays, and arithmetic logic units. Logic gate-level synthesis and computer simulation using CAD tools. Synchronous and asynchronous finite-state machines.
Prereq.: ECEN 1521, ECEN 2633.

ECEN 3734 Computer Design 3 s.h.
Systematic methodologies for digital computer hardware and software designs. VLSI circuits. SOPC, CPLD, and FPGA designs. Hardware description languages.
Prereq.: ECEN 3733.

ECEN 3741 Electromagnetic Fields 1 3 s.h.
Prereq.: ECEN 2633, prerequisite or concurrent MATH 3705.

ECEN 3742 Electromagnetic Fields 2 3 s.h.
Prereq.: ECEN 3741.

ECEN 3771 Digital and Analog Circuits 1 3 s.h.
Terminal characteristics of electronic devices such as diodes, BJTs (bipolar junction transistors), FETs (field effect transistors), and operational amplifiers. The design of digital circuits with these devices. Basic bias and small-signal models for analog amplifiers. Computer-aided design and analysis.
Prereq.: ECEN 2633.

ECEN 3772 Digital and Analog Circuits 2 3 s.h.
Continuation of ECEN 3771. Bias and signal modeling for amplifier design. Large-signal, small-signal and DC amplifiers. Single-stage, multistage and power amplifiers. Frequency response. Applications with op amps such as amplifiers, comparators, filters, and oscillators. Computer-aided design and analysis.
Prereq.: ECEN 3771.

ECEN 4803 Linear Control Systems 3 s.h.
Prereq.: ECEN 2633, ECEN 3712, MATH 3705, MECH 2620.

ECEN 4803L Linear Control Systems Laboratory 1 s.h.
Laboratory exercises to accompany ECEN 4803. Three hours laboratory per week. Prereq. or 1 s.h.
Prereq.: ECEN 2633, ECEN 3712, MATH 3705, MECH 2620.
Coreq.: ECEN 4803.

ECEN 4811 Senior Laboratory 1 s.h.
Laboratory experiments and computer exercises in the areas of applied electromagnetics, energy conversion. Designed to accompany the co-requisite course.
Prereq.: ECEN 3712.
Prereq. or concurrent: ECEN 4844.
ECEN 4820 5G Wireless Networks 3 s.h.
This course will cover the fundamental aspects of wireless networks, with emphasis on current and next-generation wireless networks. Various aspects of wireless networking will be covered including: Introduction to Wireless networks and technical challenges, Coding and Modulation Techniques, Multiplexing Techniques (SDMA, TDMA, FDMA, CDMA), Cellular Systems (1G, 2G, 3G, 4G, 5G), Wireless LAN/PAN/MAN, Internet of Things. Prereq. or.
Coreq.: ECEN 3710.

ECEN 4844 Electromagnetic Energy Conversion 3 s.h.
An examination of lumped electromagnetic parameters with development of theoretical, experimental, and design parameters for electrical energy conversion devices such as transformers, motors, and generators. Typical and special applications.
Prereq.: ECEN 3741 or concurrent: MECH 2620.

ECEN 4851 VLSI System Design 3 s.h.
Basic MOSFET models. Layout of inverters, NAND, NOR, PLA, PAL and ROMs. CMOS process and design rules. VLSI system design methodology and computer EDA tools such as PSpice and layout editors.
Prereq.: ECEN 3771, ECEN 3733.

ECEN 4852 Neural Networks and Robotics 3 s.h.
Principles for control applications and robotics, direct inverse control, neural networks, and fuzzy set theory. Applications including adaptive control, neural networks for motion control and path planning in robotics.
Prereq.: ECEN 3733.

ECEN 4854 Principles of Electromagnetic Compatibility 3 s.h.
Prereq.: ECEN 3742 and MATH 3705.

ECEN 4855 Advanced Digital Control 3 s.h.
Prereq.: ECEN 3733.

ECEN 4856 Embedded System Design 4 s.h.
Fundamentals of small-scale and medium-scale embedded systems. Design techniques for processors, timers, input device interfacing, interrupt controllers, and drive circuits. Real-time operating system programming tools. Hardware-software co-designs. Three hours lecture, three hours laboratory.
Prereq.: ECEN 3733.

ECEN 4881 Modern Control System Design 3 s.h.
Advanced control system analysis and design. LQR, pole placement, state observer design. Introduction to system identification and adaptive controllers. MATLAB simulation and real-time implementation of controllers. Three hours lecture, three hours laboratory per week.
Prereq.: ECEN 4803.

ECEN 4899 Senior Design Project 4 s.h.
An electrical/computer engineering design problem is chosen or assigned; students work in teams. Proposals are presented which describe the design problem and approaches to it. The final design is presented in written and oral forms. This capstone course is intended to mimic a typical industrial or research project and includes ethical and economical considerations with the engineering work. Three hour lecture/discussion, three hours of laboratory per week.
Prereq.: ECEN 4811 and 27 s.h. of ECEN courses.
Gen Ed: Capstone.

ECEN 4899L Senior Design Project Lab 1 s.h.
Laboratory exercises to accompany ECEN 4899. Three hours laboratory per week. Prereq. or.
Prereq.: ECEN 4811 and 27 semester hours of ECEN courses.
Coreq.: ECEN 4899.

ECEN 5800 Special Topics 1-3 s.h.
Special topics, new developments in Electrical Engineering. Subject matter, special prerequisites, and credit hours to be announced in advance of each offering. May be repeated with different subject matter to a maximum of 6 s.h.
Prereq.: Senior standing in Electrical and Computer Engineering.

ECEN 5807 Advanced Digital and Analog Circuits 3 s.h.
Chip circuitry for devices such as BJTs, CMOS, and ECL-based digital logic chips. Switching devices such as SCRs, triacs, and timers. Switching power supplies. Power amplifiers. Applications and specifications of off-the-shelf IC devices. Computer-aided design and analysis.
Prereq.: ECEN 3772.

ECEN 5808 Advanced Signals and Systems 3 s.h.
Communication and control system modeling and simulations; signal analysis in continuous-time, discrete-time and frequency domains. Advanced communication system applications.
Prereq.: ECEN 3710 and MATH 3705.

ECEN 5816 Theory and Fabrication of Solid-State Devices 3 s.h.
An introductory study of physical theory, design, and fabrication of discrete devices and integrated circuits. Electronic properties of semiconductors such as carrier concentration, energy gap, mobility, lifetime. Techniques of fabrication such as oxidation, diffusion, alloying ion implantation, metallization, masking.
Prereq.: ECEN 3741 and ECEN 3771.

ECEN 5817 Sensor Design and Application 3 s.h.
Designs and applications for measurement and control; includes electrochemical, mechanical, optical, and thermal transducers. Signal conditioning and smart sensors.
Prereq.: ECEN 3771 or ECEN 3717.

ECEN 5830 Digital Signal Processing 3 s.h.
Discrete time signals and systems; discrete, fast, and inverse Fourier transforms. Digital filter analysis and design, digital signal processing applications. Two hours lecture, three hours laboratory.
Prereq.: ECEN 3710.

ECEN 5835 Computer Architecture with VHDL 4 s.h.
Use of hardware description languages to design computer components and systems. Arithmetic and logic units, control units, VHDL models for memories and busses, interfacing, transfer design. Survey of modern computer systems.
Prereq.: ECEN 3734.

ECEN 5840 Electric Power Systems 4 s.h.
Modeling of power system components. Power flow, faults, protection systems, and stability problems. Special projects and laboratory experiments including CAD applications for analysis, design, and simulation of power system networks. Three hours lecture, three hours laboratory per week.
Prereq. or concurrent: ECEN 4844.

ECEN 5850 Communications Applications 3 s.h.
Prereq.: ECEN 3710 or ECEN 5808.

ECEN 5860 Fundamental of Antenna Design and Application 3 s.h.
Examination of dipole, loop aperture, and microstrip antennas; array theory, radiation resistance, directivity, equivalent circuits, input impedance, and basic transceiver architecture. Investigation of practical applications of antennas and arrays in communications systems, radar systems and airborne navigation systems.
Prereq.: ECEN 3742 grade of “C” or better and 21 s.h. of ECEN courses.
ECEN 5879  Computer-Aided Design  3 s.h.
The design, analysis, and modeling of linear and nonlinear networks and systems using a simulation and modeling computer program. Development and use of library models of devices, subcircuits, and subsystems. 
Prereq.: ECEN 2611 and 21 s.h. of ECEN courses.

ECEN 5890  Power Electronics  4 s.h.
SGRs, rectifier circuits, commutation techniques, AC controllers, converters, and inverters. Special projects and laboratory experiments including computer applications for analysis, design, and simulation of power electronics network.
Three hours lecture, three hours laboratory per week. 
Prereq.: ECEN 3771 and 21 s.h. of ECEN courses.

**Bachelor of Engineering in Electrical Engineering, Biomedical Track**

Through the Electrical Engineering program at Youngstown State University, you'll develop competency in all aspects of electrical engineering and its related fields. You'll take coursework anchored in engineering, math and physics that will allow you to solve complex problems and design intricate systems. Along the way, you'll also refine your communication skills and learn how to ethically and responsibly deploy your engineering skills.

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With your bachelor's degree in hand, you'll be the person advancing the products and systems that advance society.

**MAJOR**

Design projects, computer simulation and hands-on laboratory sessions are the pillars of the Electrical Engineering major at YSU. Students enrolled in the program may choose from three options that prepare graduates for a large variety of professional positions or advanced studies:

- **Traditional Option** (https://ysu.edu/academics/science-technology-engineering-mathematics/ electrical-engineering-major/#panel0)
- **Computer/Digital Option** (https://ysu.edu/academics/science-technology-engineering-mathematics/ electrical-engineering-major/#panel1)
- **Biomedical Option** (https://ysu.edu/academics/science-technology-engineering-mathematics/ electrical-engineering-major/#panel2)

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
**FIRST YEAR REQUIREMENT - STUDENT SUCCESS**
YSU 1500 | Success Seminar | 1-2
or SS 1500 | Strong Start Success Seminar |
or HONR 1500 | Intro to Honors |

**General Education Requirement**

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<tr>
<th>COURSE</th>
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<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>CHEM 1515 &amp; 1515L</td>
<td>General Chemistry 1 and General Chemistry 1 Laboratory Lecture is 4 sh lab is 0 sh</td>
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<td>CHEM 1516 &amp; 1516L</td>
<td>General Chemistry 2 and General Chemistry 2 Laboratory Lecture is 4 sh lab is 0 sh</td>
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<td>PHIL 2626</td>
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<td>ECON 2610</td>
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<td>Social Science</td>
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**Major Requirements**

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<td>Instrumentation and Computation Lab 2</td>
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<td>ECEN 2632</td>
<td>Basic Circuit Theory 1</td>
<td>3</td>
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<td>ECEN 2633</td>
<td>Basic Circuit Theory 2</td>
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<tr>
<td>ECEN 3712</td>
<td>Intermediate Laboratory 2</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following:

- ECEN 3710 | Signals and Systems | 3 |
- ECEN 3734 | Computer Design |

**Biomedical Option**

- ECEN 3772 | Digital and Analog Circuits 2 |
- ECEN 3733 | Digital Circuit Design |
- ECEN 3741 | Electromagnetic Fields 1 |
- ECEN 3742 | Electromagnetic Fields 2 |
- ECEN 3771 | Digital and Analog Circuits 1 |
- ECEN 4803 | Linear Control Systems & 4803L and Linear Control Systems Laboratory |
- ECEN 4811 | Senior Laboratory |
- ECEN 4844 | Electromagnetic Energy Conversion |
- ECEN 4899 | Senior Design Project |

**Engineering**

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<td>ENGR 1500</td>
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<td>ENGR 1550</td>
<td>Engineering Concepts</td>
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<td>ENGR 1560</td>
<td>Engineering Computing</td>
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<td>MECH 2620</td>
<td>Statics and Dynamics</td>
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<td>ISEN 3710</td>
<td>Engineering Statistics</td>
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**Science**

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<td>CHEM 3720 &amp; 3720L</td>
<td>Organic Chemistry 2 and Organic Chemistry 2 Laboratory Lecture is 4 sh lab is 0 sh</td>
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<td>BIOL 2601 &amp; 2601L</td>
<td>General Biology: Molecules and Cells and General Biology: Molecules and Cells Laboratory Lecture is 4 sh lab is 0 sh</td>
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<td>BIOL 2602 &amp; 2602L</td>
<td>General Biology: Organisms and Ecology and General Biology: Organisms and Ecology Laboratory Lecture is 4 sh lab is 0 sh</td>
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<td>PHYS 2610 &amp; 2610L</td>
<td>General Physics 1 and General Physics Laboratory 1 Lecture is 4 sh lab is 1 sh</td>
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<tr>
<td>PHYS 3705</td>
<td>Thermodynamics and Classical Statistical Dynamics</td>
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<tr>
<td>CSIS 2605</td>
<td>Fundamentals of Programming and Problem-Solving 2</td>
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**Mathematics Minor** -one course counts toward Gen Ed

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<td>MATH 1572</td>
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<td>MATH 2673</td>
<td>Calculus 3</td>
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<td>MATH 3705</td>
<td>Differential Equations</td>
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<tr>
<td>MATH 3718</td>
<td>Linear Algebra and Discrete Mathematics for Engineers</td>
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The following two science courses are recommended for the biomedical option but do not count toward degree requirements:

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CHEM 3785</td>
<td>Biochemistry</td>
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</tbody>
</table>
Bachelor of Engineering in Electrical Engineering, Computer/Digital Track

The following (1 through 7) Student Outcomes support the program educational objectives. Attainment of these outcomes by students by the time of their graduation prepares graduating students to enter the professional practice of engineering.

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

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<td>&amp; General Chemistry 1 Laboratory</td>
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<td>Arts and Humanities (1 course)</td>
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<td>Social Science (1 course)</td>
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<td>Social and Personal Awareness (2 courses)</td>
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<td><strong>Major Requirements</strong></td>
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<td>ECEN 4811</td>
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<td>ECEN 4844</td>
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**Total Semester Hours** 129-131

### Year 1

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<td>ECEN 2611</td>
<td>Instrumentation and Computation Lab 1</td>
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<tr>
<td>PHYS 2610 &amp; 2610L</td>
<td>General Physics 1 and General Physics Laboratory 1</td>
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<tr>
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<td>ECEN 2633</td>
<td>Basic Circuit Theory 2</td>
</tr>
<tr>
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<td>Discrete Mathematics</td>
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<tr>
<td>MECH 2620</td>
<td>Statics and Dynamics</td>
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</table>
Student Outcomes

The following (1 through 7) Student Outcomes support the program educational objectives. Attainment of these outcomes by students by the time of their graduation prepares graduating students to enter the professional practice of engineering.

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Bachelor of Engineering in Electrical Engineering, Traditional Track

Summary for Traditional Track

<table>
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1. See Curriculum section for courses in these areas that are common to the three options.

Bachelor of Engineering in Electrical Engineering, Traditional Track

Major Requirements

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<td>ECEN 3710</td>
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<tr>
<td>ECEN 3711</td>
<td>Intermediate Laboratory 1</td>
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<td>ECEN 3712</td>
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<td>ECEN 3733</td>
<td>Digital Circuit Design</td>
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<td>ECEN 3741</td>
<td>Electromagnetic Fields 1</td>
<td>3</td>
</tr>
<tr>
<td>ECEN 3742</td>
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<td>ECEN 3771</td>
<td>Digital and Analog Circuits 1</td>
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<td>ECEN 3772</td>
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Bachelor of Engineering in Electrical Engineering, Traditional Track

General Education Requirements

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CHEM 1515 &amp; 1515L</td>
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<td>Writing 1 with Support</td>
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<td>Engineering Ethics</td>
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<td>Arts and Humanities</td>
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<tr>
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Bachelor of Engineering in Electrical Engineering, Traditional Track

General Education Requirement

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Bachelor of Engineering in Electrical Engineering, Traditional Track

Major Requirements

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<tr>
<td>ECEN 3771</td>
<td>Digital and Analog Circuits 1</td>
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Course List

Year 1

Fall

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<td>ENGR 1550 Engineering Concepts</td>
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<td>CHEM 1515 General Chemistry 1 &amp; 1515L General Chemistry 1 Laboratory</td>
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Semester Hours 16-17

Spring

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<td>ECEN 1521 Digital Circuits &amp; 1521L and Digital Circuits Laboratory</td>
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<td>ENGL 1551 Writing 2</td>
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Semester Hours 16

Year 2

Fall

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Semester Hours 16

Spring

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<td>MATH 3718 Linear Algebra and Discrete Mathematics for Engineers</td>
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Semester Hours 16

Year 3

Fall

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<td>ECEN 3733 Digital Circuit Design</td>
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<tr>
<td>ECEN 3741 Electromagnetic Fields 1</td>
<td>3</td>
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<tr>
<td>ECEN 3771 Digital and Analog Circuits 1</td>
<td>3</td>
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<tr>
<td>ISEN 3710 Engineering Statistics</td>
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<td>PHIL 2626 Engineering Ethics</td>
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Semester Hours 16

Spring

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<td>ECEN 3710 Signals and Systems</td>
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<td>ECEN 3742 Electromagnetic Fields 2</td>
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<td>ECEN 3772 Digital and Analog Circuits 2</td>
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Semester Hours 16

Year 4

Fall

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<td>ECEN Elective</td>
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<td>PHYS 3705 Thermodynamics and Classical Statistical Dynamics</td>
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Semester Hours 17

Spring

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<td>ECEN Elective</td>
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<td>General Education Requirement</td>
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Semester Hours 13

Total Semester Hours 126-127

Student Outcomes

The following (1 through 7) Student Outcomes support the program educational objectives. Attainment of these outcomes by students by the time of their graduation prepares graduating students to enter the professional practice of engineering.

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
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5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Minor in Electrical and Computer Engineering

For students with little or no background:

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<td>ECEN 2632</td>
<td>Basic Circuit Theory 1</td>
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<td>ECEN 2633</td>
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<td>Instrumentation and Computation Lab 2</td>
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</table>

Total Semester Hours 19

For students with background in math or computer science:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ECEN 1521L</td>
<td>Digital Circuits Laboratory</td>
<td>1</td>
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<tr>
<td>ECEN 2632</td>
<td>Basic Circuit Theory 1</td>
<td>3</td>
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<tr>
<td>ECEN 2611</td>
<td>Instrumentation and Computation Lab 1</td>
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<tr>
<td>ECEN 2633</td>
<td>Basic Circuit Theory 2</td>
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<tr>
<td>ECEN 2612</td>
<td>Instrumentation and Computation Lab 2</td>
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<td>ECEN 3733</td>
<td>Digital Circuit Design</td>
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<tr>
<td>ECEN 3734</td>
<td>Computer Design</td>
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<tr>
<td>ECEN 3771</td>
<td>Digital and Analog Circuits 1</td>
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</tr>
<tr>
<td>ECEN 3711</td>
<td>Intermediate Laboratory 1</td>
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Total Semester Hours 19

For students with background in physics:

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<td>ECEN 3710</td>
<td>Signals and Systems</td>
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<td>Digital Circuit Design</td>
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<td>ECEN 3771</td>
<td>Digital and Analog Circuits 1</td>
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<td>ECEN 3772</td>
<td>Digital and Analog Circuits 2</td>
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<td>ECEN 4803</td>
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<td>and Linear Control Systems Laboratory</td>
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</table>

Total Semester Hours 20

Mechanical, Industrial, and Manufacturing Engineering

(330) 941-3016

Moser Hall, Room 2510

The Mechanical, Industrial, and Manufacturing Engineering program is dedicated to furthering the missions and objectives of the university and the College of Science, Technology, Engineering, and Mathematics. We focus on providing an opportunity for quality education in mechanical engineering and industrial and systems engineering while offering professional service to local and regional industry and to the public. The program is committed to providing its students with a broad, general education and an up-to-date technological curriculum in a four-year undergraduate program. It also offers an application-oriented evening Master of Science in Engineering program to practicing engineers and recent engineering graduates. An online Master of Engineering Management is also available.

Professor

Osama Aljarrah, Ph.D., Assistant Professor
S. Cory Brozina, Ph.D., Assistant Professor
Kyosung Choo, Ph.D., Associate Professor
Seok Gi Lee, Ph.D., Assistant Professor
Hazel Marie, Ph.D., Professor
Hojjat Mehr, Ph.D., Professor
Stefan Moldovan, Ph.D., Assistant Professor
Alexander H. Pesch, Ph.D., Assistant Professor
Jae Joong Ryu, Ph.D., Associate Professor
Elvin B. Shields, Ph.D., Professor
Virgil C. Solomon, Ph.D., Professor
Lecturer

Eric Haake, M.A., Lecturer
Sharmin N. Mithy, M.S., Lecturer
Anthony Viviano, M.S., Lecturer

Minors

• Minor in Industrial and Systems Engineering (p. 542)
• Minor in Mechanical Engineering (p. 542)

Mechanical Engineering

MECH 1500 Drawing Fundamentals 3 s.h.
Visualization of objects for engineering communication. Freehand sketching, orthographic projection, multiview drawing, auxiliary views, sectional views, and dimensioning.
Prereq.: High school geometry or equivalent.

MECH 1501 Engineering Communication with CAD 3 s.h.
Computer-aided drawing for engineering communication. 2D multiview drawings, 3D modeling including wire frame, solid, and surface models. Final design project using these tools is required. Two hours lecture, three hours laboratory per week.
Prereq.: MECH 1500 or equivalent.

MECH 1560 Engineering Communication with CAD 2 s.h.
Commercially available software typically used in engineering practice will be used to develop traditional 2D engineering drawings and 3D solid models representing engineering components and systems. Teams of students will complete an engineering design project. One hour lecture and three hours laboratory per week.
Prereq.: ENGR 1560.
MECH 2603 Thermodynamics 1 3 s.h.
Thermodynamic properties of gases and vapors, and their relationships in energy transformations. The First and Second Laws of thermodynamics. Introduction to thermodynamic cycles and efficiencies of power and refrigeration systems.
Prereq.: MATH 1572, CHEM 1515.
MECH 2604 Thermodynamics 2 3 s.h.
Irreversibility and exergy, mixtures and solutions; psychometry. Introduction to phase and chemical equilibrium.
Prereq.: MECH 2603.
MECH 2606 Engineering Materials 3 s.h.
Properties and uses of engineering materials, manufacturing processes, including heat treatments and forming operations. Introduction to mechanical testing methods. Listed also as MTEC 2606.
Prereq.: MATH 1571 or MATH 1585H.
MECH 2620 Statics and Dynamics 3 s.h.
Principles of engineering mechanics as applied to statics and dynamics, Vector applications to forces and moments; centroid and center of gravity; static equilibrium. Kinematics of particles; Newton's laws; work-energy; and impulse momentum techniques using vector approach.
Prereq.: MATH 1572 and PHYS 2610 or concurrent.
MECH 2641 Dynamics 3 s.h.
Kinematics of particles and rigid bodies. Newton's laws of motion, work-energy, and impulse momentum techniques applied to particle and rigid body motion using a vector approach.
Prereq.: EECE 2601.
MECH 3708 Dynamic Systems Modeling 4 s.h.
Mathematical modeling of linear mechanical, electrical, thermal, fluid, and mixed systems, State space variables. Frequency response. Computer simulation using modern computer tools. Three hours lecture and three hours laboratory per week.
Prereq.: MECH 2641, ECEN 2614, MATH 3705.
MECH 3720 Fluid Dynamics 3 s.h.
Physical properties of fluids. Governing equations of fluid dynamics; forces on bodies due to incompressible fluid motion. Dimensional analysis and similitude. Analysis of energy losses in pipe flows. Concept of the viscous boundary layer.
Prereq.: MECH 2603; MECH 2641; MATH 3705.
MECH 3720L Fluid Dynamics Laboratory 1 s.h.
Introduction to equipment, data acquisition, and techniques for measurement and computation of fluid flows in engineering applications. Effective technical communication skills, analysis and interpretation of data in teams are emphasized.
Prereq.: MECH 3720.
MECH 3725 Heat Transfer 1 3 s.h.
Prereq.: MECH 3720 or concurrent.
MECH 3742 Kinematics of Machines 3 s.h.
Position, velocity, and acceleration analysis of mechanisms. Design of link and cam mechanisms to perform desired machine functions. Graphical, analytical, and commercial software applications.
Prereq.: MECH 2641, ENGR 1560 or MECH 1560.
MECH 3751 Stress and Strain Analysis 1 3 s.h.
Analysis of internal forces, stresses, strains, and deflections in three dimensions. Dynamic loading including impact and fatigue. Theories of failure and energy methods. Must be taken concurrently with MECH 3751L.
Prereq.: CEEN 2602, MECH 2606.
MECH 3751L Stress and Strain Analysis 1 Laboratory 1 s.h.
Transmission and reflection photoelasticity. State and dynamic strain gage applications using computer-aided data acquisition. Three hours laboratory per week.
Concurrent with: MECH 3751.
MECH 3752 Design of Machine Elements 3 s.h.
Application of fundamental engineering principles to the design of various elements found in machines. Elements include connections, shafts, keys, couplings, springs, gears, belts, chains, bearings, clutches, brakes, screws, etc. Must be taken concurrently with MECH 3762L.
Prereq.: MECH 2641 and MECH 3751.
MECH 3762L Design of Machine Elements Laboratory 1 s.h.
Practical design problems incorporating analysis, material selection, and sizing of machine components utilizing the computer. Three hours laboratory per week. Must be taken concurrently with MECH 3762.
MECH 4800 Special Topics 3 s.h.
Special topics and new developments in mechanical engineering. Subject matter, credit hours, and special prerequisites are announced in advance of each offering. May be repeated to a maximum of 8 s.h. with different content.
Prereq.: Junior standing in Mechanical Engineering, or consent of instructor.
MECH 4808 Mechanical Systems Design 1 2 s.h.
Detailed design of a mechanical engineering system utilizing expertise expected of a new graduate in an industry setting. Design methodology, case studies, oral presentations, and written reports prepare the student to function as part of a design team on a capstone project. MECH 4809 must be taken at the next offering after completing 4808. Re grading in MECH 4808 is Traditional/PR. Two hours lecture per week.
Prereq.: MECH 3708, MECH 3725, MECH 3742, and MECH 3762.
Gen Ed: Capstone.
MECH 4808L Me chanical Systems Design Laboratory 1 s.h.
Supplemental activities related to MECH 4808, such as discussion and seminars on industry practices and standards, computer software applications, experimental verification, etc. Three hours laboratory per week. Must be taken concurrently with MECH 4808.
Gen Ed: Capstone.
MECH 4809 Mechanical Systems Design 2 3 s.h.
Detailed design of a mechanical engineering system utilizing expertise expected of a new graduate in an industry setting. Design methodology, case studies, oral presentations, and written reports prepare the student to function as part of a design team on a capstone project. MECH 4809 must be taken at the next offering after completing 4808. Three hours lecture per week.
Prereq.: MECH 4808.
Gen Ed: Capstone.
MECH 4809L Mechanical Systems Design Laboratory 2 1 s.h.
Supplemental activities related to MECH 4808 and MECH 4809, such as discussions and seminars on industry practices and standards, computer software applications, experimental verifications, etc. Three hours laboratory per week. MECH 4809L must be taken concurrently with MECH 4808 and MECH 4809L must be taken concurrently with MECH 4809.
MECH 4823 Heating, Ventilation, and Air Conditioning 3 s.h.
Prereq.: MECH 3725.
MECH 4825L Heat Transfer and Thermodynamics Laboratory 1 s.h.
Experiments involving basic measurement techniques, power and refrigeration cycles, heat transfer, heat exchangers, and energy systems. Three hours laboratory per week.
Prereq.: MECH 3720, MECH 3725.
MECH 4835 Thermal Fluid Applications 3 s.h.
Application of the principles of thermodynamics, fluid dynamics, and heat transfer to design. Design, analysis and computer simulation of thermal fluid systems and components.
Prereq.: MECH 3725.
MECH 5811  Solar Engineering  3 s.h.
Radiational characteristics of solar energy, glass materials and selective coatings. Analysis of flat plate collectors, concentrators, and thermal storage. System simulation and economic analysis for optimization of basic solar systems.
Prereq.: PHYS 2611, MECH 3725 or consent of chairperson.

MECH 5820  Turbulence  3 s.h.
Physics of turbulence in thermal-fluid engineering systems; statistical descriptions, energy cascade and scales of turbulent motion. Modeling and simulation of turbulent flows. Examples of turbulence in mixing layers, combustion, and wall-bounded flows.
Prereq.: MECH 3720 or PHYS 3705 or CHEN 3786 (or equivalent).

MECH 5825  Heat Transfer  2 3 s.h.
Advanced topics in heat transfer. Multi-dimensional conduction, free convection, phase change heat transfer and thermal radiation. Integration of analytical, numerical, and computational methods into design projects.
Prereq.: MECH 3708 and MECH 3725.

MECH 5836  Fluid Power and Control  3 s.h.
Prereq.: MECH 3725.

MECH 5842  Kinetics of Machines  3 s.h.
Three dimensional kinematics and dynamics of machines. Dynamic analysis and design; balancing of machines.
Prereq.: MECH 3742.

MECH 5852  Stress and Strain Analysis 2  3 s.h.
Continuation of MECH 3751. Introduction to applied elasticity theory including plane stress and strain and stress functions. Plastic and creep behavior of materials. Introduction to instability. Emphasis on design applications.
Prereq.: MECH 3751, MECH 3751L, MATH 3705.

MECH 5872  Engineering Acoustics  3 s.h.
The nature of sound and its propagation; analysis and control of sound and noise production in mechanical equipment; transmission and absorption of sound in engineering materials, ultrasonics, structural acoustics, base measurements, and equipment.
Prereq.: MECH 3708.

MECH 5881  Mechanical Vibrations  3 s.h.
Introduction to mechanical vibrations: single and multi-degree of freedom systems, free and forced vibrations, impedance and modal analysis including applications.
Prereq.: MECH 3708.

MECH 5881L  Mechanical Vibrations Laboratory  1 s.h.
Introduction to vibrations measurements. Experiments with mechanical systems, computer simulation of vibration systems. Experimental determination of component models and parameters. Three hours laboratory per week.
Prereq.: MECH 5881.

MECH 5884  Finite Element Analysis  3 s.h.
Fundamental principles of finite element analysis with emphasis on applications to design in areas of stress analysis, vibrations, and heat transfer. Use of commercial software.
Prereq.: MECH 3708, MECH 3725, MECH 3751.

MECH 5885  Computational Fluid Dynamics  3 s.h.
Applied numerical analysis, including solution of linear algebraic equations and ordinary and partial differential equations; modeling of physical processes, including fluid flow and heat and mass transfer; use of general purpose computer codes, including commercial computational fluid dynamics software packages.
Prereq.: MECH 3720 and MECH 3725.

MECH 5892  Control of Mechanical Systems  3 s.h.
Introduction to theory of feedback and control. Performance and stability of linear systems. Design of feedback control systems. Practical application and introduction to state-space methods. Two hours lecture and three hours laboratory per week.
Prereq.: MECH 3708.

Industrial Engineering

ISEN 1560  Principles of Systems Design  2 s.h.
An introduction to creative thought processes and analytical tools that are used to develop human usable systems. Cognitive theory provides a foundation for analyzing human/machine interactions within systems. Cases are used to elucidate accident causation theory and exercise the application of risk reduction strategies.
Prereq.: ENGR 1550.

ISEN 3710  Engineering Statistics  3 s.h.
Applications of data collection and analysis techniques to engineering problems. Techniques for data structuring, data modeling, parameter estimation, and design of experiments utilizing engineering data.
Prereq.: MATH 1571.

ISEN 3716  Systems Analysis and Design  3 s.h.
Analysis and design of systems. Decomposition of large systems into subsystems. Analysis, modeling, and design of subsystems. Integration of subsystems. Visual BASIC programming as a modeling tool.
Prereq.: MATH 1571.

ISEN 3720  Statistical Quality Control  3 s.h.
Prereq.: ISEN 3710 or equivalent.

ISEN 3723  Manufacturing Processes  3 s.h.
Introduction to properties and uses of engineering materials. Introduction to mechanical testing methods, metrology, tolerances, testing and inspection; semi-finished product manufacturing; macro-processing (forming, casting, powder metallurgy, metal working, composite fabrication); joining; nontraditional manufacturing processes; and surface processing.
Prereq.: MATH 1572.

ISEN 3724  Engineering Economy  3 s.h.
The analysis and evaluation of factors that affect the economic success of engineering projects. Topics include interest, depreciation, cost classification, comparison of alternatives, make-buy decisions, replacement models and after-tax analysis.
Prereq.: MATH 1571.

ISEN 3727  Simulation of Industrial Engineering Systems  3 s.h.
Techniques for the digital simulation of industrial engineering systems which can be represented via discrete event models. The generation of random variables, shaping of probability distributions, model structuring, model verification, and the simulation of inventory, queuing, and quality control systems in a high-level structured programming language. A special-purpose simulation language for expanding the class of problems which can be economically modeled.
Prereq.: ISEN 3710, ISEN 3716.

ISEN 3736  Methods Engineering  2 s.h.
Techniques for analysis of task performance, the use of process charts, and various methods of work simplification, human-machine relation analysis. Theory and practice of time study and other methods of measuring and establishing performance level and productivity.
Prereq.: ISEN 3710 or equivalent.

ISEN 3736L  Methods Engineering Laboratory  1 s.h.
Practice in analyzing and recording tasks. Determination of time standards and productivity requirements. Analysis and evaluation of actual plant operations. Taken concurrently with ISEN 3736. Three hours laboratory per week.
ISEN 3745  Accounting for Engineers  3 s.h.
Review of labor and material costing systems. Introduction to cost accounting systems. Practice in development of forecasting and estimating systems.
Prereq.: ISEN 3724 or equivalent.

ISEN 4810  Special Topics  3 s.h.
Special topics and new developments in Industrial Engineering. Subject matter, credit hours, and special prerequisites to be announced in advance of each offering.
Prereq.: senior standing in Industrial Engineering or consent of instructor.

ISEN 4821  Capstone Design 1: Manufacturing and Service Systems  3 s.h.
The application of engineering techniques to the analysis, design, layout, and justification of manufacturing and service facilities. Subjects covered include equipment selection, process flow, and material flow. The system design involves field investigation, acquisition and analysis of data, use of computer-aided facilities planning and design software, preparation of drawings, and writing a final report. Grading is Traditional/PR.
Prereq.: ISEN 3723, ISEN 3736, ISEN 5801, and 96 s.h. of engineering degree credits.
Gen Ed: Capstone.

ISEN 4822  Capstone Design 2: Logistics Systems  3 s.h.
Analysis, planning and design of material handling, storage/warehouse and logistics systems. The fundamental analytic tools, approaches, and techniques which are useful in the planning, design, layout, and operation of logistics systems and integrated supply chains. Development and use of fundamental models to illustrate the underlying concepts involved in both intra- and inter-company logistics operations.
Prereq.: ISEN 4821.
Gen Ed: Capstone.

ISEN 5801  Operations Research 1  3 s.h.
Formulation and solution of engineering problems using linear programming. Model formulation, the primal, dual, and transportation simplex methods, duality theory, and sensitivity analysis.
Prereq.: MATH 2673.

ISEN 5811L  Manufacturing Practices 1 Laboratory  1 s.h.
Experimental analysis of manufacturing processes. Process control and data acquisition. Experimental design applied to processes including polymer processes, casting, machining, and joining. Three hours laboratory.
Prereq. or concurrent ISEN 3723.

ISEN 5812L  Manufacturing Practices 2 Laboratory  1 s.h.
Prereq. or concurrent ISEN 5823.

ISEN 5820  Advanced Quality for Engineers  3 s.h.
Applications and practices of quality control in industry. Engineering and administrative aspects of quality control programs, process control, and acceptance sampling. Application of quantitative methods to the design and evaluation of engineered products, processes, and systems.
Prereq.: ISEN 3720.

ISEN 5823  Automation  3 s.h.
Principles and applications of sensing, actuation and control. Emphasis on hydraulic and pneumatic systems. Industrial process controllers, sensors and machine vision. Design and cost considerations for industrial automation applications.
Prereq.: MECH 2641, ECEN 2614 or consent of instructor.

ISEN 5825  Advanced Engineering Economy  3 s.h.
An extension of the topics in engineering economy. Analysis of rationale and norm of decision making, risk and uncertainty models, utility theory, measurement of productivity, and advanced project comparison methods.
Prereq.: ISEN 3724.

ISEN 5830  Human Factors Engineering  3 s.h.
Various aspects of human factors in the design of human-machine systems and environments. Study of human sensory, perceptual, mental, psychomotor, and other characteristics; techniques of measuring human capabilities, limitations, safety, comfort, and productivity.
Prereq.: MATH 2673.

ISEN 5850  Operations Research 2  3 s.h.
Formulation and solution of industrial engineering problems using operational research models. Topics include queuing models and the specialization of linear models to equipment replacement, project planning, assignment, and transshipment problems.
Prereq.: ISEN 5880.

ISEN 5880  Management of Technology  3 s.h.
The course discusses major topics in management of technology and innovations. Dynamics of technology innovation, sources of technology innovations, corporate technology strategy, collaboration and intellectual property, structures and process for innovations, idea generation, commercialization of technology and innovations, and market entry.
Prereq.: Senior standing or consent of instructor.

ISEN 5881  Competitive Manufacturing Management  3 s.h.
Basic principles of manufacturing competitiveness. The role of engineers in promoting competitiveness. Discussion of new technologies used in modern manufacturing management including, continuous improvement, waste elimination, JIT, lean production systems, setup time reduction, equipment maintenance/improvement, total quality management, and supply chain management.
Prereq.: ISEN 3723 or consent of instructor.

Bachelor of Engineering in Industrial and Systems Engineering

Welcome to the Youngstown State University (YSU) Industrial & Systems Engineering program webpage. We offer a Bachelor of Engineering (BE) degree in Industrial & Systems Engineering. This program offers a strong background in mathematics, the sciences, management principles, and principles of engineering analysis and design. Also, in addition to receiving a quality education in this program, many students participate in co-op or internship job assignments during their time with us, making them highly marketable upon completion of their degrees. Graduates of the program enjoy placement in many areas of the diverse industrial engineering job market.

I hope that you find this webpage informative. If you have any additional questions, please contact me.

Martin Cala, Ph.D., P.E.
Professor and Program Coordinator
Department of Mechanical, Industrial and Manufacturing Engineering
Phone: (330) 941-1746
E-mail: mcala@ysu.edu
(330) 941-3016

The industrial and systems engineer functions as a problem-solver, innovator, coordinator, and agent of change in a wide variety of positions in manufacturing industries, service industries, and government. The industrial and systems engineer’s unique background combines a study of science, mathematics, and management principles with the principles of engineering analysis and design to provide access to a wide variety of flexible technical and managerial careers.

The aim of the industrial and systems engineering program is to produce graduates who secure professional engineering positions, practice the profession ethically and effectively, maintain their professional competency
through lifelong learning, and advance in one of the many technical and managerial career paths available to industrial and systems engineers.

The program prepares its students for these accomplishments by providing them with a broad scientific and engineering base via courses in mathematics, physics, chemistry, and the engineering sciences. In addition, courses in the social sciences and the humanities develop sensitivity to the social context within which the profession must be ethically practiced. Finally, industrial and systems engineering courses in the areas of manufacturing systems, human-machine systems, management systems, and management science develop the technical expertise required by professional practice.

Program Educational Objectives
The industrial and systems engineering program at Youngstown State University is committed to offering its students a high standard of educational training. In fulfillment of its mission, as well as the missions of the College of STEM and the University, the program has established educational objectives that ensure graduating engineers have the educational knowledge and skills to practice industrial engineering effectively. The objectives of the Industrial and Systems Engineering Program are for our graduates to be:

- Professionals who are technically competent in modern industrial engineering based careers, as well as other emerging disciplines.
- World citizens who exhibit leadership qualities in their chosen disciplines, and who pursue continuing education through advanced degrees, certifications, licensure, etc.
- Active contributors to their professions, industries and/or communities.

Student Outcomes
The curriculum is structured to achieve the following outcomes as prescribed by ABET:

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Industrial and Systems Engineering Annual Enrollment and Graduation Data
The Industrial and Systems Engineering BE Program has been accredited by the engineering accreditation commission of ABET, http://www.abet.org (http://www.abet.org/).

<table>
<thead>
<tr>
<th>Academic Year</th>
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<tr>
<td>2012-2013</td>
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<td>2014-2015</td>
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<td>2015-2016</td>
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<td>2016-2017</td>
<td>14</td>
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<td>2017-2018</td>
<td>18</td>
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</table>

Industrial and Systems Engineering Laboratories
The industrial and systems engineering laboratory spaces are located in Moser Hall and are equipped with hardware, software and networks to serve experiences within the curriculum that are hands on, team based, and communications or computational intensive. Laboratory experiences develop capabilities to design detailed components and to integrate solutions into large scale systems. Successively more challenging assignments are taken on throughout the curriculum and culminate in comprehensive experiences in the capstone facilities design sequence.

Cooperative Education
The industrial and systems engineering program strongly encourages its students to actively participate in the optional cooperative education program. The parallel co-op arrangement which combines work and study each semester is recommended. However, full-time employment in the summer
Industrial & Systems Engineering Program

Accreditation
The Industrial Engineering BE program has been accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org/

Advisement
The industrial and systems engineering program specifies mandatory advisement. Every student in the program is advised every semester before his or her registration. Students cannot finalize their registration without approval of the faculty advisor or program coordinator.

Industrial & Systems Engineering Program

<table>
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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<td>ENGL 1551</td>
<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>PHIL 1561</td>
<td>Technology and Human Values</td>
<td>3</td>
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<td>PHIL 2626</td>
<td>Engineering Ethics</td>
<td>3</td>
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<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
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<td>CHEM 1515</td>
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<td>PHYS 2610</td>
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<td>MATH 1571</td>
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<td>MATH 2673</td>
<td>Calculus 3</td>
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<td>MATH 3705</td>
<td>Differential Equations</td>
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<td>MATH 3720</td>
<td>Linear Algebra and Matrix Theory</td>
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<td>STEM Recommended Electives:</td>
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<tr>
<td>MECH 1560</td>
<td>Engineering Communication with CAD</td>
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<td>MECH 2606</td>
<td>Engineering Materials</td>
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<td>CSIS 2610</td>
<td>Programming and Problem-Solving</td>
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<tr>
<td>ISEN 5811L</td>
<td>Manufacturing Practices I Laboratory</td>
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<td>Mathematics Courses</td>
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<td>MATH 1571</td>
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Year 1

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Year 2

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<td>Calculus 3</td>
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<tr>
<td>CSIS 2610</td>
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Spring

| ISEN 3716 | Systems Analysis and Design | 3 |
| ISEN 3736 | Methods Engineering | 3 |
| ISEN 3736L | Methods Engineering Laboratory | 3 |
| PHYS 2611 | General Physics 2 | 4 |
| CEEN 2601 | Statics | 3 |
Bachelor of Engineering in Mechanical Engineering

Welcome to YSU’s Mechanical Engineering program. We offer Bachelor of Engineering (BE) and Master of Science in Engineering (MSE) degrees in Mechanical Engineering. The undergraduate program provides a strong background in mathematics, the sciences, and fundamentals of engineering, as well as tracks in the design and analysis of solid mechanics systems, thermal fluid flow systems, and dynamic systems. In addition to a quality education, most students participate in co-op or internship job assignments during their time with us, making them more marketable upon completion of their degrees. Graduates of the program enjoy placement in many areas of the diverse mechanical engineering job market.

I hope that you find this web page informative. If you have any additional questions, please contact me.

Hazel Marie, Ph.D., P.E.
Department of Mechanical, Industrial and Manufacturing Engineering
Phone: (330) 941-3015
E-mail: hmarie@ysu.edu

Mechanical engineering is the branch of the engineering profession that deals with:

- the conversion and use of energy
- the design of machines and engines
- the instrumentation and control of physical processes, systems and environments

The challenge of mechanical engineering is to use the principles of mathematics, along with the physical and thermal sciences, to develop and construct well designed machines and machine systems. Mechanical engineers are concerned with the practical purpose and function of a machine...
or system, as well as its design for strength, reliability, safety, economy, and appearance.

**Program Mission**
The mission of the mechanical engineering program is to further the missions and objectives of the University and the College of Science, Technology, Engineering and Mathematics by providing an opportunity for a quality education in Mechanical Engineering to the people it serves, particularly those in northeast Ohio and western Pennsylvania. The program also strives to provide professional service to the local and regional industry and to the public. The program is committed to meeting regional and state-wide priorities in higher education by providing its students with a broad, general education and an up-to-date technological curriculum in a four-year undergraduate program, and an application-oriented evening graduate program, offering a Master of Science in Engineering degree to practicing engineers and recent engineering graduates. The program also strives to enhance quality research and scholarly activities to be integrated with teaching and meet the needs of the region by providing area schools, businesses, industries, and government agencies with technical expertise.

**Program Educational Objectives**
The program educational objectives of the mechanical engineering undergraduate program are to educate graduates who will be professional, productive, and ethical members of society. As they progress professionally after graduation, our alumni will do the following:

1. Demonstrate successful application of mechanical engineering knowledge and skills through:
   a. employment in leadership roles in industry, academia, government, or other organizations
   b. engagement in research and development in graduate study or industry
   c. analytical problem solving in less traditional careers such as law, medicine, business, public policy, secondary education, service industries, etc.
   d. mentorship of younger engineers in careers involving management or entrepreneurship

2. Demonstrate the commitment to lifelong learning through:
   a. active participation in professional development opportunities in their disciplines; such as conferences, short courses, graduate education
   b. development of new knowledge and skills necessary for new areas of expertise or careers
   c. adaption of their fundamental engineering knowledge for effectiveness in changing global markets and workforce trends

3. Demonstrate active engagement in professional service through:
   a. application of their engineering knowledge to advance society and to help solve technical and societal problems
   b. engagement in activities that promote sustainable economic development that enhances the quality of life
   c. promotion of the engineering profession as a source of societal good
   d. participation in community activities where their engineering knowledge adds significantly to their contributions

These Program Educational Objectives describe long-term accomplishments for which we seek to prepare the graduates of Youngstown State University mechanical engineering program. It is expected that progress toward these objectives is measurable.

**Student Outcomes**
The YSU mechanical engineering program student outcomes ensure that our graduates have been given the skills to attain the program educational objectives after graduation. Student outcomes for direct assessment are ABET specified outcomes (1) through (7). Our students are expected to graduate with:

1. Engineering Expertise - an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. Design Expertise - an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. Communication Skills - an ability to communicate effectively with a range of audiences
4. Professional Responsibility - an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. Teamwork Competency - an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. Experimental Competency - an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. Life-long Learning - an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

**Accreditation**
The Mechanical Engineering BE program has been accredited by the Engineering Accreditation Commission of ABET. [http://www.abet.org](http://www.abet.org/).

**Annual Enrollment and Graduation Data**

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<td>2017-2018</td>
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**Vision Statement**
Mechanical engineering and mechanical engineering education, in particular, face dramatic challenges in the future due to rapidly changing technologies.
and a new pattern of societal and industrial demands. The vision of the program is to meet these challenges and exceed the expectations of its constituents by focusing on the following primary strategies of the program:

- Continuous improvement of an educational environment for outstanding teaching and learning
- Development of a productive research program through a strategic focus on technology development in emerging areas such as green energy, computer simulation, and nanotechnology
- Successful co-op and internship programs that provides students with on-the-job training opportunities
- An assessment program and procedures in order to insure a high quality program focusing on the needs of the program’s constituents (the students, alumni, employers, faculty, administrations, community and the general public)
- Healthy enrollment that facilitates diversification of curriculum and faculty research and professional development

In order to achieve its educational objectives and to further the missions and objectives of the University and the College, the program provides an educational environment, teeming with opportunities for students to learn and acquire essential knowledge and skills that are defined in the ABET Criteria 2000, through its curriculum and extra-curricular activities. The program maintains undergraduate and graduate curricula that are well balanced in engineering fundamentals, state-of-the-art technology, and real-world engineering applications, in the primary specialty areas of fluid thermal sciences, and mechanics of deformable bodies. The undergraduate curriculum also contains courses that foster:

- critical and independent thinking
- decision making
- development of interpersonal communication and a life-long learning attitude
- working within a team
- integration of knowledge, skills, ethics, and personal responsibility

Although the program intends to cultivate the capabilities of its students’ problem solving, fundamental and advanced engineering analyses, design, research, and development, it also intends to provide the students with maximum exposure to hands-on, experimental skills to insure the high quality of its graduates. Through courses like stress analysis, thermal fluid applications, and finite element analysis, students will acquire strong tools for design and pertinent knowledge to solve real-world engineering problems. Our emphasis on engineering applications, computer simulation, and hands-on experience are complementary to each other and encourage students to apply analytical methods to engineering problems.

This approach enhances the effectiveness of teaching and also facilitates the students’ understanding of abstract and difficult subjects. The ultimate goal of the program is to provide the society and industry with “whole person” mechanical engineers with superior technical capability.

### Mechanical Engineering Laboratories

The mechanical engineering program maintains six physical experimental laboratories in Moser Hall. A wide array of modern equipment, instrumentation devices, and department-owned computers are housed in spacious rooms that support academic instruction and research activities in applied thermodynamics, heating and air conditioning, fluid mechanics, heat transfer, stress analysis, vibrations, and material property characterization. Other mechanical engineering laboratories are simulation and computing-related laboratories that include computer-aided design, machine design, kinematic and dynamic systems, and finite-element analysis. The College and the mechanical engineering program maintain modern computing facilities in Moser Hall and constantly upgrade hardware and software. The students and faculty also use the university computing facilities in Meshel Hall and Kilcawley Center.

For more information, visit Mechanical Engineering (http://www.ysu.edu/academics/science-technology-engineering-mathematics/mechanical-engineering-major/).

### Cooperative Education

The mechanical engineering program strongly encourages its students to actively participate in the optional cooperative education program. The parallel co-op arrangement which combines work and study each semester is recommended. However, full time employment in the summer can also be included. Students must register for a co-op course and submit documentation as specified by professional practice office.

### Advisement

The mechanical engineering program specifies mandatory advisement. Every student in the program is advised every semester before his or her registration. Students cannot finalize their registration without approval of the faculty advisor or chair.

### Industrial Advisory Board

The Industrial Advisory Board is another valuable resource in ensuring a quality program. It is composed of members of various local industries, having a vital interest and purpose in the school and/or department. The industry advisory board members can also serve as mentors on an industry sponsored project, as well as to advise the department in the area of curriculum development and research. Our board members include:

- David Drabison – Board Chair
  Design Engineer
  Babcock & Wilcox Company, Nuclear Operations Group

- John Divitto
  Business Development Manager
  Babcock & Wilcox Company, Power Generation Group

- Tony Ghioldi
  Vice President Sales
  Quality Bridge & Fab, Inc.

- Don Helle
  Director – Global Process Engineering
  The Goodyear Tire & Rubber Company

- Patrick Kiraly
  Tooling Specialist
  V&M Star

- Mike Malito
  Babcock & Wilcox Company (Retired)

- Anthony J Nackino
  Engineer Manager
  Advanced Recycling Systems, Inc.

- Gorman Ng
  Regional Manager
  O.E.M. and Government
  Linde Hydraulics Corporation

- David Peterson
  Babcock & Wilcox Company (Retired)

- Courtney A. Puhl
  Business Development Manager
  ABB Power Systems Power Generation

- Richard Ulam
  Business Development Manager
  ABB Power Systems Power Generation
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<td>YSU 1500</td>
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<td>or HONR 1500</td>
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<td>Communication Foundations</td>
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<td>Mathematics requirement (met with MATH in major)</td>
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<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
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<td>ECON 2610</td>
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<td>Social Science elective</td>
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<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<td>Social and Personal Awareness (2 courses)</td>
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<td>MECH 2604</td>
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<td>MECH 2606</td>
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<td>MECH 2641</td>
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<td>MECH 3720</td>
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<td>MECH 3725</td>
<td>Heat Transfer 1</td>
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<td>MECH 3742</td>
<td>Kinematics of Machines</td>
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<td>MECH 3751</td>
<td>Stress and Strain Analysis 1</td>
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<td>MECH 3751L</td>
<td>Stress and Strain Analysis 1 Laboratory</td>
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<td>MECH 3762</td>
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<td>MECH 4808</td>
<td>Mechanical Systems Design 1</td>
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|        | **Year 1** | S.H. |
|        | **Fall** |      |
| YSU 1500 | Success Seminar | 1 |
| ENGL 1550 or ENGL 1549 | Writing 1 or Writing 1 with Support | 3-4 |
| MATH 1571 | Calculus 1 | 4 |
| CHEM 1515 | General Chemistry 1 | 4 |
| ENGR 1500 | Engineering Orientation | 1 |
| ENGR 1550 | Engineering Concepts | 2 |
| GER Elective (SPA) | 3 | |
|        | **Semester Hours** | 18-19 |
|        | **Spring** |      |
| ENGL 1551 | Writing 2 | 3 |
| MATH 1572 | Calculus 2 | 4 |
| PHYS 2610 | General Physics 1 | 4 |
| CMST 1545 | Communication Foundations | 3 |
| ENGR 1560 | Engineering Computing | 2 |
|        | **Semester Hours** | 16 |

|        | **Year 2** | S.H. |
|        | **Fall** |      |
| MECH 1560 | Engineering Communication with CAD | 2 |
| MECH 2606 | Engineering Materials | 3 |
| MATH 2673 | Calculus 3 | 4 |
| PHYS 2611 | General Physics 2 | 4 |
| CEEN 2601 | Statics | 3 |
|        | **Semester Hours** | 16 |
|        | **Spring** |      |
| MECH 2603 | Thermodynamics 1 | 3 |
| MECH 2641 | Dynamics | 3 |
| MATH 3705 | Differential Equations | 3 |
| CEEN 2602 | Strength of Materials | 3 |
| CEEN 2602L | Strength of Materials Lab | 1 |
| ECEN 2614 | Basics of Electrical Engineering | 3 |
|        | **Semester Hours** | 16 |

|        | **Year 3** | S.H. |
|        | **Fall** |      |
| MECH 3720 | Fluid Dynamics | 3 |
| MECH 3742 | Kinematics of Machines | 3 |
| MECH 3751 | Stress and Strain Analysis 1 | 3 |
| MECH 3751L | Stress and Strain Analysis 1 Laboratory | 1 |
| ECON 2610 | Principles 1: Microeconomics | 3 |
|        | **Semester Hours** | 16 |
|        | **Spring** |      |
| MECH 2604 | Thermodynamics 2 | 3 |
and welfare, as well as global, cultural, social, environmental, and economic factors.

3. Communication Skills - an ability to communicate effectively with a range of audiences

4. Professional Responsibility - an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts

5. Teamwork Competency - an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives

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7. Life-long Learning - an ability to acquire and apply new knowledge as needed, using appropriate learning strategies

Minor in Industrial and Systems Engineering

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<td>ISEN 3716</td>
<td>Systems Analysis and Design</td>
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<td>ISEN 3720</td>
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<td>ISEN 3723</td>
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<td>ISEN 3724</td>
<td>Engineering Economy</td>
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Total Semester Hours: 18

Minor in Mechanical Engineering

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<td>MECH 2604</td>
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<td>3</td>
</tr>
<tr>
<td>MECH 2641</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3720</td>
<td>Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3742</td>
<td>Kinematics of Machines</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3751</td>
<td>Stress and Strain Analysis 1</td>
<td>3</td>
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</tbody>
</table>

Total Semester Hours: 18

Bachelor of Engineering in Manufacturing Engineering

The Bachelor of Engineering degree in Manufacturing Engineering provides students with expertise that focuses on the processes needed to produce physical goods and materials. Students will gain a strong foundation in materials, mechanical engineering, and design to support their understanding of the mechanics of processes. They will also gain foundational understanding of industrial engineering concepts to support their ability to optimize production systems for maximum efficiency. Topics will include traditional manufacturing as well as modern digital manufacturing (additive manufacturing / 3D printing) processes and automation. Graduates from this program will be well prepared for careers in a wide range of industries including: traditional manufacturers, primary materials producers, and high-tech manufacturing (including defense, aerospace, and biomedical).
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
<td></td>
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<tr>
<td><strong>Fall</strong></td>
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<tr>
<td>CHEM 1515</td>
<td>General Chemistry 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 1500</td>
<td>Engineering Orientation</td>
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</tr>
<tr>
<td>ENGR 1550</td>
<td>Engineering Concepts</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
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<tr>
<td>GER Elective (SPA)</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<td>16</td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
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<tr>
<td>MECH 1560</td>
<td>Engineering Communication with CAD</td>
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<tr>
<td>PHYS 2610</td>
<td>General Physics 1</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<tr>
<td><strong>Year 2</strong></td>
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<td><strong>Fall</strong></td>
<td></td>
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<tr>
<td>CEEN 2601</td>
<td>Statics</td>
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<td>MATH 2573</td>
<td>Calculus 3</td>
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<tr>
<td>MECH 2606</td>
<td>Engineering Materials</td>
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<tr>
<td>PHYS 2611</td>
<td>General Physics 2</td>
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<tr>
<td>ISEN 3723</td>
<td>Manufacturing Processes</td>
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</tr>
<tr>
<td>MFG 3723L</td>
<td>Manufacturing Processes Laboratory</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<td>18</td>
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<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECEN 2614</td>
<td>Basics of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ISEN 3716</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>MATH 3705</td>
<td>Differential Equations</td>
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<tr>
<td>MECH 2603</td>
<td>Thermodynamics 1</td>
<td>3</td>
</tr>
<tr>
<td>MECH 2641</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Hours</strong></td>
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<td>15</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td></td>
<td></td>
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<tr>
<td>MFG 3771</td>
<td>Additive and Digital Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ISEN 3724</td>
<td>Engineering Economy</td>
<td>3</td>
</tr>
<tr>
<td>ISEN 3710</td>
<td>Engineering Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3720</td>
<td>Fluid Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3762</td>
<td>Design of Machine Elements</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3762L</td>
<td>Design of Machine Elements Laboratory</td>
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</tr>
<tr>
<td><strong>Semester Hours</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISEN 3720</td>
<td>Statistical Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>GER Elective (SPA)</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>GER Elective (SS)</td>
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<tr>
<td>GER Elective (SS)</td>
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<td>3</td>
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<td><strong>Semester Hours</strong></td>
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<td><strong>Year 4</strong></td>
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<tr>
<td><strong>Fall</strong></td>
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<td></td>
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<tr>
<td>GER Elective (AH)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
<td>3</td>
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<tr>
<td>MFG 4823</td>
<td>Manufacturing Processes 2</td>
<td>3</td>
</tr>
<tr>
<td>MFG 4823L</td>
<td>Manufacturing Processes 2 Laboratory</td>
<td>1</td>
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<tr>
<td>MFG 4871</td>
<td>Stress Plasticity and Deformation with FEA for Manufacturing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Course 
S.H.**

- MFG 4861 Design for Manufacturability 3

**Semester Hours**

- 16

**Spring**

- GER Elective (AH) 3
- ISEN 5823 Automation 3
- MECH 5836 Fluid Power and Control 3
- ENT 3700 Entrepreneurship New Venture Creation 3
- MFG 4821 Manufacturing Capstone 3
- MFG Technical Elective (select from list) 3

**Semester Hours**

- 15

**Total Semester Hours**

- 123

**Learning Outcomes**

The goal of the B.E. in Manufacturing Engineering degree program at YSU is to provide our graduates with strong foundation of theoretical and applied skills equipping them for success to pursue careers in manufacturing or to continue on to advanced study in related field.

The learning objective for the major in Manufacturing Engineering include:

1. Students will demonstrate an understanding of the fundamentals of manufacturing engineering, including significant elements from Mechanical Engineering, Industrial Engineering, and manufacturing process design and analysis.
2. Students will demonstrate independent and critical thinking.
3. Students will demonstrate competency in the use of modern engineering computational tools, including solid modeling and finite element analysis software.
4. Students will be able to acquire and interpret experimental data using appropriate instrumentation, sensing, data acquisition, and computational tools.
5. Students will demonstrate the ability to effectively communicate information orally and in writing.

**Minor in Manufacturing Engineering**

The Minor in Manufacturing Engineering program provides students broad familiarity with the principles of design and analysis of manufacturing processes and strategies. Cost and manufacturability considerations are explored for components and assemblies produced by traditional, advanced, and digital manufacturing processes (e.g. additive manufacturing / 3D printing).

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students must take all of the following (9 s.h.):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MFG 3723</td>
<td>Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>MFG 4823</td>
<td>Manufacturing Processes 2</td>
<td>3</td>
</tr>
<tr>
<td>MFG 4861</td>
<td>Design for Manufacturability</td>
<td>3</td>
</tr>
<tr>
<td><strong>Students must take at least one course from the following (3 s.h.):</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MFG 3771</td>
<td>Additive and Digital Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ISEN 3720</td>
<td>Statistical Quality Control</td>
<td>3</td>
</tr>
<tr>
<td>ISEN 5823</td>
<td>Automation</td>
<td>3</td>
</tr>
<tr>
<td>ISEN 3716</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5836</td>
<td>Fluid Power and Control</td>
<td>3</td>
</tr>
<tr>
<td>MET 4860</td>
<td>Robotics Technology</td>
<td>2</td>
</tr>
<tr>
<td>MET 4860L</td>
<td>Robotics Technology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Students must take concurrently MET 4860 and MET 4860/
Dean's Welcome
Excellence through engagement drives the programs and activities of the Williamson College of Business Administration.

Our mission is to prepare business professionals and leaders, conduct research with impact and support the economic development of our region. To that end, we provide rigorous academic preparation for our undergraduate and MBA students, focus on the leadership skills and professional development of our students, and capitalize on our strategic partnerships with the business community.

The high quality of our students, faculty and staff, programs and opportunities available to our students is recognized by our accreditation by AACSB International—The Association to Advance Collegiate Schools of Business (https://www.aacsb.edu/). Students in the WCBA deserve the best, and AACSB accreditation is the external recognition that they are getting the best!

Successful business students develop a strong portfolio of knowledge, skills and experiences that position them for success in college and in their careers. Leadership activities, internships, strong academic performance, global learning experiences, community service and professional orientation are all components of the professional portfolio.

We are proud to offer a variety of academic programs and services in the college that support our students in achieving their career goals. I look forward to the opportunity to discuss the Williamson College of Business Administration with you. Whether you are a current student, prospective student, parent, alumnus or business professional, I hope you will feel free to contact me if you have any questions or would like to explore how you can get involved with the WCBA.

With Penguin Pride,
Betty Jo Licata, PhD

WCBA Learning Objectives
Williamson College of Business Administration graduates will be:

Knowledgeable Business Professionals
1. Students will demonstrate a multidisciplinary understanding of business concepts.

Adept Business Problem Solvers
1. Students will be able to utilize appropriate techniques to identify a business problem.
2. Students will be able to conduct analysis using evidence based methods.
3. Students will be able to make a supported recommendation intended to solve a business problem.

Professional Communicators
1. Students will be able to deliver professional business presentations.
2. Students will be able to write professional business documents.

Model Business Professionals
1. Students will exhibit professional conduct in a workplace environment.
2. Students will exhibit behaviors associated with being an effective team member.
3. Students will exhibit behaviors associated with being an effective leader.

Departments and Programs

Lariccia School of Accounting and Finance
Dr. Jeremy Schwartz, Chair, (330) 941.3076

UNDERGRADUATE MAJORS
- Accounting (BSBA)
- Finance Financial Management Track (BSBA)
- Finance Certified Financial Planner Track (BSBA)
- Business Economics (BSBA)
- Economics (BA)

MINORS
- Accounting
- Economics
- Economics with Statistics

GRADUATE DEGREES
- Master of Accountancy (MAcc)
- Master of Arts in Financial Economics
- Master of Arts in Financial Economics (online)

The Department of Management and Marketing
DR. BRUCE KEILLOR, CHAIR, (330) 941-1894

UNDERGRADUATE MAJORS
- Advertising and Public Relations (BSBA)
- Business Administration (BSBA)
- Human Resource Management (BSBA)
- Management (BSBA)
- Marketing Management Track (BSBA)
- Marketing Sales Track (BSBA)
- International Business (BSBA) (ICP)

MINORS
- Advertising and Public Relations
- Business (non-business majors)
- Employee Relations
- Entrepreneurship
- Management
- Management Information Systems
- Marketing
- Nonprofit Leadership
- Sales

CERTIFICATES
- Enterprise Resource Planning
- Leadership
Entrepreneurship

Nonprofit Leadership

THE DEPARTMENT OF COMMUNICATION
DR. AMY CRAWFORD, CHAIR, (330) 941-2342

UNDERGRADUATE MAJORS

• Communication Studies Interpersonal/Organizational Track (BA)
• Communication Studies Media Track (BA)
• Communication Studies Persuasion Track (BA)
• Communication Studies Social Media Track (BA)
• Journalism (BA)
• Journalism Sports Information and Media Track (BA)
• Journalism Broadcast and Digital Media Track (BA)
• Telecommunication Studies Media Arts Track (BA)
• Telecommunication Studies Sports Broadcasting Track (BA)

MINORS

• Communicating in Diverse Organizations Minor
• Communication Studies Minor
• Journalism Minor
• Interpersonal Communication Minor
• Social Media Campaigns Minor
• Magazine and Specialty Reporting Minor
• Sports Information Minor
• Telecommunication Studies Minor

GRADUATE DEGREE

• Master of Arts in Professional Communication

GRADUATE CERTIFICATE

• Instructional Communication Graduate Certificate

ASSOCIATE DEGREES

• Associate of Arts in Business Administration (AABA)
• Associate of Technical Study in Business Technology (ATS)

Facilities-Williamson Hall

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For more information visit the Warren P. Williamson College of Business website.
Bachelor’s Degree Program-BSBA

GENERAL INFORMATION-BSBA Degree

Admission Requirements (BSBA)

Direct Admission

Incoming first year business students with a minimum 3.0 high school GPA OR minimum ACT score of 21 or SAT score of 1060 will be admitted directly into the business major of their choice (Accounting, Advertising/Public Relations, Business Administration, Business Economics, Finance, Human Resource Management, International Business (ICP), Management, Marketing).

Pre-Business Administration

Incoming first year students who do not meet the standards established above (3.0 high school GPA OR 21 ACT or 1060 SAT) will be admitted as Pre-Business Administration. Pre-Business Administration majors will be eligible to declare a major after successful completion of the following:

• 29 semester hours
• 2.5 overall YSU GPA
• Successful completion of ENGL 1550 Writing I and MATH 1510 College Algebra

Transfer Students/Change of Major

Transfer students and YSU students requesting a change of major to business will be admitted directly to their major of choice if they have successfully completed ENGL 1550 Writing I (C), MATH 1510 College Algebra, all developmental course work, and have a minimum 2.5 overall GPA.

Major requirements differ based upon the student's field of study. They will consist of 30-42 credit hours of upper level business courses including specific courses related to the major, major related electives and business electives. An upper division business course is a 3000-level or higher course from the following subjects: BUS, ADV, ACCT, FIN, ENT, MGT, and MKTG.

Graduation Requirements (BSBA)

The student has the responsibility for making sure that all graduation requirements for the degree are satisfied. For the Bachelor of Science in Business Administration, the requirements include:

• A minimum of 120 semester hours
• Completion of all General Education and BSBA requirements
• The grade of a C or higher in ENGL 1551, MATH 1552, Business Tool courses, Business Core Courses and Major Courses. These courses cannot be taken credit/no credit
• Minimum cumulative GPA of 2.5
• Course-level requirements (completion of sixty (60) semester hours of courses must be completed at the 2000 level or higher, of which thirty nine (39) semester hours must be at the 3000 level or higher
• Residency requirement (http://catalog.ysu.edu/undergraduate/general-information/academic-policies-procedures/graduation-requirements/)
• Application for graduation (https://ysu.edu/penguin-service-center/apply-for-graduation/)

A graduation evaluation request must be submitted no later than two semesters prior to a student's intended graduation. It is a student's responsibility to request the evaluation through the student portal system.

The Request for Graduation Evaluation can be submitted via the Penguin Portal by clicking on "Access My Student Information" then "Graduation Evaluation Request".
ADMISSION REQUIREMENTS (BA IN ECONOMICS)
Incoming freshman interested in the economics major will be directly admitted into their desire major. Transfer students (YSU change of major or from another college/university) must have a GPA of 2.00 and be in "good academic standing" to declare a major. Students are expected to meet with a their academic advisor prior to registration and are encouraged to meet with an advisor when they have questions or concerns, and to monitor degree progress.

GRADUATION REQUIREMENTS (BA in Economics)
The student has the responsibility for making sure that all graduation requirements for the degree are satisfied. For the Bachelor of Arts, the requirements include:

- A minimum of 120 semester hours
- Completion of all General Education and Degree requirements including Foreign Languages, an official YSU minor and major courses
- The grade of a C or higher in ENGL 1551 and courses required for the major and minor; these courses cannot be taken credit/no credit
- Minimum cumulative GPA of 2.0
- Course-level requirements (completion of sixty (60) semester hours of courses must be completed at the 2000 level or higher, of which thirty nine (39) semester hours must be at the 3000 level or higher
- Residency requirement
- Application for graduation

A graduation evaluation request must be submitted no later than two semesters prior to a student's intended graduation. It is a student's responsibility to request the evaluation through the student portal system.

The Request for Graduation Evaluation can be submitted via the Penguin Portal by clicking on "Access My Student Information" then "Graduation Evaluation Request".

GENERAL INFORMATION (The Department of Communication)
Admission Requirements (BA Communication Studies, Journalism)
Incoming freshman interested in communication studies, telecommunication studies or journalism will be directly admitted into their desire major. Transfer students (YSU change of major or from another college/university) must have a GPA of 2.00 and be in "good academic standing" to declare a major. Students are expected to meet with a their academic advisor prior to registration and are encouraged to meet with an advisor when they have questions or concerns, and to monitor degree progress.

Admission Requirements (BA Telecommunication Studies)
Incoming students interested in majoring in Telecommunication Studies will enter as a Pre-Telecommunication major. Upon successful completion of 15 semester hours of college level course work including ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of A or B in all three) students will be eligible to change their major to Telecommunication Studies Media Arts Track or Telecommunication Studies Sports Broadcasting Track.

Graduation Requirements (BA Communication Studies, Journalism, Telecommunication Studies)
The student has the responsibility for making sure that all graduation requirements for the degree are satisfied. For the Bachelor of Arts, the
Professional Development

WCBA students are encouraged to develop a strong portfolio of knowledge, skills, and experiences that position them for success in college and in their careers. A wide array of opportunities are available which enable students to gain career related experience, develop leadership skills, and acquire professional competencies.

Internships

WCBA students gain career-related work experience through internships experiences. These experiences provide students with professional level experiences related to their chosen major. In addition to gaining valuable experience, students can earn academic credit for the internship. Internships can be part-time or full-time, either fall, spring, or summer, and can be located anywhere in the world. The WCBA Center for Career Management aids both students and employers interested in participating in the Internship Program. Internships are offered in all WCBA majors.

Student Leadership Opportunities

Student chapters of national professional organizations provide an excellent means for students to develop leadership skills, network with professionals in their chosen career fields, and increase their exposure to the business world.

Professional Development Programs

WCBA majors are encouraged to develop a strong portfolio of knowledge, skills, and experiences that position them for success in college and in their careers. A wide array of opportunities is available which enable students to gain career related experience, develop leadership skills, and acquire professional competencies.

Honor Societies

The Williamson College of Business Administration recognizes students’ outstanding academic performance through initiation into Beta Gamma Sigma, the national honor society for AACSB International-accredited business schools. Students who qualify for Beta Gamma Sigma are inducted in the spring of each year. To be eligible, students must be in the upper 10 percent of the junior class, the upper 10 percent of the senior class, or the upper 20 percent of the graduating master’s class.

Qualified business students are also eligible for membership in Phi Kappa Phi, a national honor society that recognizes superior scholarship in all academic fields, and Beta Alpha Psi, the national professional organization for accounting, finance, and information systems majors who have completed one upper level course, have a 3.0 accounting, finance, or information systems GPA, and have a 3.0 overall GPA.

Lambda Pi Eta is a communication honorary that recognizes outstanding students and provides opportunities for greater involvement and leadership within the field of Communication.

WCBA Business Leaders

The Williamson College of Business Administration Business Leaders Program is designed for students who excel academically and demonstrate a high level of commitment to their professional and leadership development. This program provides a select group of incoming freshmen with a variety of opportunities to increase their knowledge of business, accelerate their involvement with the business community, and enhance their professional preparation. To be eligible for the Business Leaders Program, students must have:

- Declared business major leading to a BSBA degree
- 3.5 high school grade point average
- ACT Score of at least 25 or SAT score of at least 1150

Global Learning Experiences

Students who participate in a global learning experience cultivate a international mindset that allows them to identify opportunities across a broad spectrum of different countries and economies. A global mindset cannot be taught—it comes with experience. YSU and the WCBA offers several programs to prepare students for entry into the world-wide business environment including:

- Short-term global learning experiences lasting approximately 10 days typically offered during a class break period (winter, spring, or summer break). These are faculty-led tours that include business and cultural visits to places including Italy and Ireland. Students receive three credit hours of upper-level business coursework that is applied to their degree requirements.
- Study Abroad Programs offered through the YSU Center for International Studies and Programs offer a variety of semester-long international study experiences. These programs allow students to live in and take classes at an international university. WCBA students have spent a semester abroad studying in Italy, Australia, China, and Spain.

Lariccia School of Accounting and Finance

OVERVIEW

Welcome to the Lariccia School of Accounting & Finance! Students interested in the quantitative aspects of business and commerce will find both our curricular and extracurricular offerings desirable for their education and career
pursuits. Please explore the resources here to learn more about the breadth of offerings now housed within our School.

Jeremy Schwartz, Director  
(330) 941-3076  
jtschwartz@ysu.edu

DISCIPLINES
Accounting majors are taught how to gather, analyze, record, prepare, and examine a variety of financial information with this information being of central importance to CEOs, business owners, and policy makers. Accounting graduates pursue careers in general accounting, tax, audit, consulting, government accounting, or nonprofit accounting. Professional accounting certifications include Certified Public Accounting (CPA), Certified Management Accounting (CMA), Certified Fraud Examiner (CFE), and Certified Internal Auditor (CIA).

Finance majors use financial information to analyze a company’s future prospects and manage a company’s working capital, to analyze markets and make investment decisions, to assist individuals in planning their financial future, or to analyze the benefits and risks of company decisions. Graduates with a major in finance pursue careers in areas such as financial analysis, treasury, financial services including banking and insurance, risk management, or financial planning. Professional certifications include Certified Financial Planner (CFP), Chartered Financial Analyst (CFA), and Certified Valuation Analyst (CVA).

Economics majors master valuable knowledge and develop real-world skills along with a sense of enlightenment and fulfillment. Economics majors are a good fit for career choices like market research analyst, economic consultant, risk analyst, political scientist, policy analyst, actuary, etc. After graduation, some of our majors choose to go to law schools or pursue a doctorate degree in economics or finance.

EXTRACURRICULAR ACTIVITIES
- Student-Practitioner Days
- Volunteer Income Tax Assistance Program (VITA)
- Student Investment Fund
- Institute of Management Accountants
- Economics Club

HONORARY FRATERNITIES
- Beta Alpha Psi (Accounting, Finance, Information Systems)
- Omicron Delta Epsilon (Economics)
- Beta Gamma Sigma (BSBA majors)

Director
Jeremy Schwartz, Ph.D., Director

Professor
Huiayu (Peter) Chen, Ph.D., Associate Professor
Maria Paulina Kassawat, Ph.D., Assistant Professor
David B. Law, Ph.D., Professor
Karina A. Petruska, Ph.D., Professor
Raymond J. Shaffer, D.B.A., Assistant Professor
Peter Woodlock, Ph.D., Professor
Xiaolou Yang, Ph.D., Associate Professor
Yiyang Zhang, Ph.D., Assistant Professor

Lecturer
M. Constance Augustine-Thompson, M.B.A., Lecturer
Kerri Henderson, M.B.A., Lecturer
Michael Villano, Ph.D., Lecturer
Jessie Wright, M.B.A., Lecturer

MAJORS (BSBA DEGREE-AACSB ACCREDITED)
- Accounting (p. 557)
  - Finance: Financial Management Track (p. 560)
  - Finance: Certified Financial Planner Track (p. 559)
  - Business Economics (p. 562)

MAJOR (BA DEGREE)
- Economics (p. 564)

MINORS
- Accounting Minor (p. 566)
- Economics (p. 566)
- Economics with Statistics (p. 566)
- Finance Minor (p. 566)

Accounting
ACCT 1503  Elementary Accounting  3 s.h.
Terminology, concepts and principles of basic financial and managerial accounting from a user perspective. Internal controls, cash controls, and payroll accounting are covered. Does not fulfill WCBA requirements and cannot substitute for ACCT 2602.

ACCT 2600  Accounting Field Experience  1 s.h.
Internship and/or cooperative education experiences in accounting. Students may be assigned to corporate, non-profit, or government entities on a semester basis. Can repeat this course once for a different field experience.
Prereq.: 2.5 GPA, department approval and sophomore standing.

ACCT 2602  Financial Accounting  3 s.h.
Study of the accounting cycle and generally accepted accounting principles including preparation of financial statements.
Prereq.: BUS 1500 (C) or BUS 1500H (C), sophomore standing.

ACCT 2603  Managerial Accounting  3 s.h.
Study of the accounting informational needs of management. Emphasis on techniques of planning and control.
Prereq.: "C" or better in ACCT 2602.

ACCT 3701  Intermediate Accounting 1  4 s.h.
Comprehensive study of the theories and concepts underlying financial accounting. Emphasis on income determination, asset valuation, measurement of liabilities and changes in financial position.
Prereq.: "C" or better in ACCT 2603 and ACCT 2603L or ACCT 2603 and BUS 2600, 2.5 overall GPA.

ACCT 3702  Intermediate Accounting 2  4 s.h.
Comprehensive study of the theories and concepts underlying financial accounting. Emphasis on income determination, asset valuation, measurement of liabilities and changes in financial position.
Prereq.: "C" or better in ACCT 3701 and 2.5 overall GPA.

ACCT 3709  Accounting Information Systems  4 s.h.
Study of systems analysis, design, and implementation within the context of an accounting information system. Topics include a treatment of the business computing environment, security and control of information, the accounting information system as a component of the management information system, and decision support and expert systems.
Prereq.: "C" or better in ACCT 3701 and 2.5 overall GPA.
ACCT 3710 Analysis and Design of Accounting Databases 3 s.h.
An introduction to the analysis of accounting databases. Specific emphasis is placed on the structure and use of accounting databases, particularly XBRL. 2.5 overall GPA.
Prereq.: ACCT 3709.

ACCT 3711 Cost Accounting 3 s.h.
Study of cost accumulation for products manufactured under job order or continuous manufacturing processes; cost behavior and profit-volume relationships; cost structures for control and motivation; relevant costs for non-routine decision making.
Prereq.: "C" or better in ACCT 2603 and ACCT 2603L or ACCT 2603 and BUS 2600 and 2.5 overall GPA.

ACCT 3712 Advanced Cost 3 s.h.
In-depth study of standard and differential costing. Compilation and preparation of budget data for managerial and administrative purpose. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 3711.

ACCT 3721 State and Local Taxes 3 s.h.
Theory applicable to state and local taxation. Primary emphasis on taxation principles in current use by state and local government units located throughout the United States. Case law is studied, some representative tax returns prepared. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 2603.

ACCT 3730 Oil and Gas Accounting 3 s.h.
Accounting and taxation principles and procedures for the petroleum industry. Topics include exploration, leasing, drilling and production problems. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 2603.

ACCT 3750 Fraud Examination 3 s.h.
Study of occupational fraud and abuse. Topics include asset misappropriation schemes, corruption, and fraudulent statements, including fraudulent financial statements. Coverage of these topics includes implications for the fraud examiner and corporate management. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 2603.

ACCT 4801 Advanced Accounting 4 s.h.
Financial accounting and reporting related to complex and highly sophisticated business transactions. Topics include the equity method, business combinations, variable interest entities, segment and interim reporting, worldwide diversity of accounting standards, foreign currency translations and transactions, SEC reporting, legal reorganizations and liquidations, partnership accounting, and estates and trusts. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 3702 and FIN 3720.

ACCT 4808 Auditing and Fraud Investigation 4 s.h.
The theory and practice of financial auditing with emphasis on fraud investigation. Topics include professional standards, audit reports, evidence, occupational fraud, data interogation, and computer-assisted audit techniques. Students analyze actual business fraud cases. "C" or better in FIN 3720. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 3702, ACCT 3709, and ACCT 3711.

ACCT 4809 Security and Privacy in Electronic Commerce 3 s.h.
This course focuses on the technology and communication infrastructure supporting electronic commerce and its impact on auditing. Encryption, public key infrastructure, digital signatures, payment schemes, and web commerce are discussed. 2.5 overall GPA.
Prereq.: ACCT 4808.

ACCT 4813 Federal Taxation 1 4 s.h.
Introduction to Federal taxation theory and concepts relating to individuals and business entities, including tax research and tax form preparation. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 3701, or FIN 3720.

ACCT 4815 Estate Planning 3 s.h.
A study of estate and gift tax law including tax return preparation. Emphasis on the importance of estate planning and the devices available for use in such planning, and effective uses of lifetime gifts, trusts, life insurance, pension plans, profit sharing, and other fringe benefit plans. The effects of state inheritance tax and property laws upon estate planning will be included. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 4813.

ACCT 4817 Income Tax Preparation 1 3 s.h.
Preparation of actual federal, state and local income tax returns of people from the community. Completion of an IRS training program in federal income taxation of individuals, including international students and scholars and military personnel. Training using professional income tax preparation software is also provided. 2.5 overall GPA.
Prereq.: ACCT 3701 or permission of instructor.

ACCT 4818 Income Tax Preparation 2 3 s.h.
A continuation of ACCT 4817 with updated training in federal tax law and tax preparation software. Because of previous experience in ACCT 4817, students prepare more-complex tax returns (including small business and rental returns), provide guidance and leadership to first-year students, and assist with summary and eFiling of tax returns. A more in-depth summary/reflection paper is required. May be repeated once. 2.5 overall GPA.
Prereq.: ACCT 4817.

ACCT 4835 Research in Accounting and Taxation 3 s.h.
This course provides useful guidance and information in conducting practical professional tax and accounting research. A broad range of case analyses allows the instructor to focus on appropriate current topics in the accounting profession. Three hours lecture and hands-on research per week. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 3702 and ACCT 4813.

ACCT 4840 Accounting Internship 3 s.h.
The student is given the opportunity to relate theory to practice in a career related on-site field experience with a participating organization.
Prereq.: Accounting major, junior standing, 2.5 overall GPA, and approval of director.

ACCT 4841 Accounting Internship 2 3 s.h.
Students have the opportunity to relate theory to practice in a career related on-site field experience with a participating organization. Accounting Internship 2 may be done at a different or the same organization as ACCT 4840; if the same organization, higher levels of duties and performance are expected. 2.5 overall GPA, and approval of director.
Prereq.: "B" or better in ACCT 4840.

ACCT 4851 Professional Practice in Accounting 1 s.h.
Provides students with cooperative education experiences in accounting. Students may be assigned to public, corporate, or government entities on a semester to semester basis. May be repeated. 2.5 overall GPA.
Prereq.: Accounting major, junior standing.

ACCT 4855 Careers and Professionalism in Acct 1 s.h.
Professionals from public, private, nonprofit and governmental accounting areas are invited to speak during class. The focus is how to plan for, and what to expect when starting an accounting career, and how to conduct oneself as a professional. Ethical considerations are emphasized. The class offers a unique opportunity to interact and network with accounting professionals.
Prereq.: Junior standing or permission of instructor, and 2.5 overall GPA.

ACCT 4860 Special Topics in Accounting 1-4 s.h.
Subject matter, credit hours, and prerequisites will be announced in advance of each topic. 2.5 overall GPA.
Prereq.: Permission of department chairperson.

ACCT 4870 CPA Review Financial Accounting and Reporting 2 s.h.
A CPA review course focused on preparing students to take the financial accounting and regulation sections of the CPA exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective towards the BSBA degree; cannot be used as an Accounting elective.
Prereq.: "C" or better in ACCT 4801 and 2.5 overall GPA.
ACCT 4871 CPA Review Regulation 2 s.h.
A CPA review course focused on preparing students to take the regulation section of the CPA exam, including familiarizing students with the computer-based questions and simulations found on the exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective toward the BSBA degree; cannot be used as an Accounting elective.
Prereq.: "C" or better in ACCT 4813, 2.5 overall GPA.

ACCT 4872 CPA Review AUDIT 2 s.h.
A CPA review course focused on preparing students to take the Auditing and Attestation section of the CPA exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective toward the BSBA degree; cannot be used as an Accounting elective.
Prereq.: "C" or better in ACCT 4808, 2.5 overall GPA.

ACCT 4873 CPA Review Business Environment and Concepts 2 s.h.
A CPA review course focused on preparing students to take the Business Environment and Concepts sections of the CPA exam. Only ONE 2 semester hour CPA Review course may be used as an Upper Division Business elective toward the BSBA degree; cannot be used as an Accounting elective.
Prereq.: "C" or better in ACCT 4808, 2.5 overall GPA.

ACCT 5814 Federal Taxation 2 3 s.h.
Study of current Federal income tax law applying to proprietorships, corporations, S corporations, and partnerships. Includes fundamentals of researching tax law and preparing business tax returns. 2.5 overall GPA.
Prereq.: "C" or better in ACCT 3709, 3711 and FIN 3720 and 2.5 overall GPA.

ACCT 5820 Government and Funds Accounting 3 s.h.
Generally accepted accounting principles for not-for-profit and governmental organizations as established by the appropriately recognized, standard-setting bodies. Includes state and local governments, school districts, colleges and universities, hospitals, voluntary health and welfare organizations, and others.
Prereq.: "C" or better in ACCT 3701 and 2.5 overall GPA.

ACCT 6901 Financial Accounting Decision Making 2 s.h.
A survey of the fundamental concepts of financial accounting employed by general managers.
Prereq.: Permit required.

ACCT 6905 Business Tax Planning and Research 1 3 s.h.
A study of the tax planning process and how it relates to employee and employer matters including, but not limited to, the alternative minimum tax, personal holding companies, unreasonable accumulations of earnings, depreciation recapture, retirement structuring, tax credits, taxation of international persons, and estate tax issues, including both lifetime and testamentary transfers. Paper and electronic research media will be utilized along with various formats for presentation of results.
Prereq.: ACCT 5814 or equivalent.

ACCT 6908 Auditing Theory and Practice 3 s.h.
A study of auditing standards and procedures, use of statistical and other quantitative techniques, and auditing electronic data processing installations. Other topics include practice before the Securities and Exchange Commission, special reporting problems, current developments in auditing, professional ethics and responsibilities, and extensions of the attest function.
Prereq.: ACCT 4808 Auditing or equivalent.

ACCT 6909 Management Information and Control Systems 3 s.h.
A study of the formalized set of interrelated methods, procedures, and equipment utilized in developing, processing, storing, and reporting business financial and statistical information. The major emphasis is on computerized systems, although some attention is also given to manual operations and/or subsystems.
Prereq.: MGT 6900 and FIN 6900 or equivalent.

ACCT 6910 Business Internship 1-3 s.h.
Provides graduate students the opportunity to relate theory to practice through on-the-job work experience with a participating organization. The internship will serve as an elective MBA course.
Prereq.: Completion of level I MBA coursework and six semester hours of level II MBA coursework.

ACCT 6912 Advanced Management and Cost Accounting 3 s.h.
An examination of the managerial uses of accounting information for planning and control, and an investigation of cost accounting theory and practice.
Prereq.: ACCT 3711 Cost Accounting or equivalent.

ACCT 6915 Estate Planning 3 s.h.
A study of estate and gift tax law including tax return preparation. Emphasis on the importance of estate planning and the devices available for use in such planning, and effective uses of lifetime gifts, trusts, life insurance, pension plans, profit sharing, and other fringe benefit plans. The effects of state inheritance tax and property laws upon estate planning will be included.
Prereq.: "C" or better in ACCT 4813 or equivalent.

ACCT 6917 MAcc Income Tax Preparation 3 s.h.
Students prepare basic and complex tax returns (including small business and rental returns) for taxpayers from the university and community, provide guidance to undergraduate students, and assist in training and administration of the VITA (Volunteer Income Tax Preparation) program, including efile returns.
Prereq.: graduate standing.

ACCT 6922 Cost Based Decision Making 3 s.h.
Insights into a company's product costs (including those considered direct and indirect), its fixed and variable costs (and ways to identify these) and an understanding of its controllable and non-controllable costs all are necessary to effectively manage an organization. This course focuses on these concepts and how they can be used when making business decisions.

ACCT 6925 Oil and Gas Accounting 3 s.h.
A study of the accounting and taxation principles and procedures of the petroleum industry. Topics include exploration, leasing, drilling and production problems.
Prereq.: "C" or better in ACCT 2603 or FIN 6902.

ACCT 6930 Financial Accounting Regulation 3 s.h.
The major objective of the course is to enable students to understand both the theoretical and practical aspects of compliance and regulation. Emphasis is on financial statement regulation and standard setting, including differences in financial measurement and reporting practices that exist in the U.S. and internationally. The course will examine how effective governance systems are implemented within all forms of organizations.
Prereq.: Graduate standing.

ACCT 6935 Research Accounting and Tax 3 s.h.
A study of the practical research process, providing useful guidance and information in conducting professional accounting and tax research. A broad range of case analyses allows a focus on current topics in the accounting profession.
Prereq.: "C" or better in ACCT 3702 and ACCT 4813.

ACCT 6940 Data Analytics for Accounting 3 s.h.
Course emphasis is on knowledge and skills required by accountants and managers to collect, manage, query, analyze extremely large volumes of data in various formats from numerous sources. Focus will be given to results that management of data brings to an organization. It will cover a broad spectrum of topics chosen from the following: database management, descriptive statistics, predictive analytics, through data discovery, data merging & cleaning, data visualization, ethics data quality, and advanced data modeling. It will include hands-on use of available software found in industry practices such as SAS and Tableau, with an emphasis on spreadsheets and coding skills.
Prereq.: Graduate standing.

ACCT 6945 Accounting Ethics and Professionalism 2 s.h.
This course will include coverage of professional ethics in accounting, practice development in accounting (including services marketing), and accounting-related career success skills. The course will be a combination of personal reflection, cases, lectures, outside guests (from accounting firms and entities and those that hire them), and a project identifying a development challenge faced by accountants with recommendations on what should be done.
Prereq.: Graduate Standing.
ACCT 6950 Fraud Examination 3 s.h.
A study of occupational fraud and abuse. Topics include asset misappropriation schemes, corruption, and fraudulent statements, including fraudulent financial statements. Coverage includes implications for the fraud examiner and corporate management.
Prereq.: ACCT 2602 or FIN 6902.

ACCT 6960 Seminar in Accounting 2 s.h.
Specific topics selected by the staff from timely and controversial work published in the field.
Prereq.: All core courses, plus at least six hours (6900-level) in accounting or permission of instructor.

ACCT 6968 Special Topics in Accounting 1-3 s.h.
Topics may vary from semester to semester and will be announced with prerequisites and hours. May be repeated.

ACCT 6970 Capstone Experience 1 s.h.
A culmination of learning experiences necessary for accounting professionals. An integrative case study project will be required. Program level assessment will be a component of this course, both in terms of technical knowledge and other program-level learning goals including written and oral communication.
Prereq.: Permission of MAcc Director.

ACCT 6971 Regulation Theory Review and Practice 2 s.h.
A culmination of learning experiences in the regulation area (federal taxation and business law) necessary for accounting professionals, with a strong emphasis placed upon the CPA (Certified Public Accountant) exam in the regulation areas. An integrative, practice-based project in auditing will be required.
Prereq.: Admission into the MAcc program.

ACCT 6972 Audit Theory Review and Practice 2 s.h.
A culmination of learning experiences in the auditing area necessary for accounting professionals, with a strong emphasis placed upon the CPA (Certified Public Accountant) exam in the financial accounting areas. An integrative, practice-based project in auditing will be required.
Prereq.: undergraduate major in accounting or its equivalent.

ACCT 6973 Business Environment & Concepts Theory Review and Practice 2 s.h.
A culmination of learning experiences in the business environment and concepts (BEC) area necessary for accounting professionals, with a strong emphasis placed upon the CPA (Certified Public Accountant) exam in the BEC areas. An integrative, practice-based project in the BEC areas will be required.
Prereq.: Admission into the MAcc program.

ACCT 6974 Financial Accounting Theory Review and Practice 2 s.h.
A culmination of learning experiences in the financial accounting area necessary for accounting professionals, with a strong emphasis placed upon the CPA (Certified Public Accountant) exam in the financial accounting area. An integrative, practice-based project in financial accounting will be required.
Prereq.: undergraduate major in accounting or its equivalent.

ACCT 6975 Business Tax Planning 2 2 s.h.
This course continues the study of income tax laws concerning corporations generally, including Subchapter S corporations, corporate reorganizations, partnership taxation, and tax administration and practice.
Prereq.: ACCT 6905.

ACCT 6980 Governmental and Nonprofit Accounting 2 s.h.
A study of accounting systems for federal, state, and local governmental agencies and other not-for-profit organizations. (Not available for credit to students who have had ACCT 4820.)
Prereq.: FIN 6900 Government and Funds Accounting or equivalent.

ACCT 6996 Research Problems 1-4 s.h.
Special research project under the supervision of a graduate faculty member. Credit will be determined in each case in light of the nature and extent of the project.
Prereq.: Fifteen hours of level II MBA coursework or permission of MBA director.

Finance
FIN 2600 Finance Field Experience 1 s.h.
Internship and/or cooperative education experiences in finance. Students may be assigned to corporate, non-profit, or government entities on a semester basis. Can repeat this course once for a different field experience.
Prereq.: 2.5 GPA, department approval, and sophomore standing.

FIN 2615 Planning Your Financial Future 3 s.h.
An introductory course to personal finance planning. Emphasis on establishing financial goals and monitoring progress toward reaching those goals to improve the individual's quality of life. Topics include financial planning process, budgeting, credit, financing strategies, education planning, tax planning, etc. Open to business and non-business majors. Serves as the first course for students who are interested in the finance field.
Prereq.: ENGL 1550 grade of "C" or better and MATH Level 20 or higher or ACT Math Score of 18 or higher or SAT Math Score 480 or higher and Junior standing and 2.5 overall GPA.

FIN 3720 Business Finance 3 s.h.
Study of the financial problems associated with the life cycle of business. Analysis of problems relating to estimating the financial needs of an enterprise and to evaluating the alternative means of providing temporary and permanent capital. Relationship of current financial decision with financial policy is analyzed from the viewpoint of management and the investor.
Prereq.: Successful completion of Business Tool Courses including BUS 1500, ACCT 2602, ACCT 2603, ACCT 2603L OR BUS 2600, MATH 1552, ECON 2610, ECON 2630, MGT 2604, ENGL 3742, ECON 3790 OR ECON 3788 with the grade of C or better, 2.5 GPA.

FIN 3721 Personal Financial Management 4 s.h.
An integration of the comprehensive financial planning process into the individual's financial life cycle. Includes accumulation, preservation, and distribution of financial assets. Topics include financial planning basics and risk management, investment selection, retirement planning and employee benefits, tax considerations, estate and trust basics. Junior standing and 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 3725 Real Estate Investment 3 s.h.
Topics include real property ownership, real estate markets, valuation methods, financing methods and management of real estate investments. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 3726 Insurance Planning 3 s.h.
Introduces students to risk management and insurance decisions in personal and business financial planning. Topics include insurance for life, health, disability, property and liability risks as well as annuities, group insurance, long-term care insurance and social security. 2.5 overall GPA.
Prereq.: "C" or better in FIN 2615 or FIN 3715 and FIN 3720.

FIN 3730 Investment Planning 4 s.h.
Introduces topics of investment planning, vehicles, analysis and strategies required in the financial planning process. Discussions are within the context of risk and return, asset valuation, various financial instruments, financial mathematics, asset pricing models and portfolio management. The aim of the course is for students to gain the knowledge to evaluate alternative investment choices in the context of client's financial planning needs. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.
FIN 4833 Retirement Plans & Employee Benefits 4 s.h.
Provides students with retirement and employee benefits topics required for a financial planning career discussed within the context of time value of money, inflation, and taxation. Specifically, insurance (life, disability and medical) issues, ESOPs and deferred compensation plans, private and public retirement plans and distribution rules are reviewed in-depth. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 4835 Advanced Business Finance 4 s.h.
In-depth examination of the techniques and analyses employed in the financial management process. Advanced study of working capital management, capital budgeting, and long- and short-term financing choices. Integrated decision making tools such as the options framework as well as economic value added. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 4836 Financial Markets 4 s.h.
An examination of global financial markets, institutions, and instruments with emphasis on factors influencing how firms and individuals make financing and investing decisions. Advanced coverage of primary market financing, investment banking, stock and index options, financial futures. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720 and FIN 3730.

FIN 4838 Financial Plan Development 4 s.h.
Prepares students with financial planning knowledge, skills and ability to integrate, apply and communicate to their clients. Planning recommendations are demonstrated through real-life case studies. The focus of this capstone course is on the fundamental planning practices, professional skills and integration of concepts and knowledge. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3726, FIN 4833 and ACCT 4815.

FIN 4839 International Accounting and Finance 3 s.h.
Cross-functional introduction to multinational enterprises and multinational financial management with emphasis on foreign currency risk management; measuring and managing accounting and economic exposure; foreign trade and investment analysis; various topics in international accounting and finance. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 4841 Seminar in Investments and Security Markets 3 s.h.
An examination of the literature on efficient capital markets with implications for security selection and portfolio management. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 4845 Business Valuation 3 s.h.
Study of business valuation techniques currently used in valuing publicly traded and private equity to include: cash flows, forecasting, estimating cost of capital for public and private companies, valuation of stand-alone companies and business units from perspective of acquirer and seller. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 4850 Finance Internship 3 s.h.
The student is given the opportunity to relate theory to practice in a career related on-site field experience with a participating organization.
Prereq.: Finance major, junior standing, 2.75 Finance GPA, 2.5 overall GPA and approval of director.

FIN 4851 Finance Internship 2 3 s.h.
Students have the opportunity to relate theory to practice in a career related on-site field experience with a participating organization. Finance Internship 2 may be done at a different or the same organization as FIN 4850, if the same organization, higher levels of duties and performance are expected. 2.5 overall GPA, and approval of director.
Prereq.: grade of "B" or better in FIN 4850.

FIN 4853 Financial Analysis 4 s.h.
Theory and practice of financial analysis. Analysis and interpretation of financial information with emphasis on practical applications. Projected financial statements, budgeting, valuation and computer modeling of current financial problems. 2.5 overall GPA.
Prereq.: "C" or better in FIN 3720.

FIN 4860 Special Topics in Finance 1-4 s.h.
Provides students with financial planning career discussed within the context of time value of money, inflation, and taxation. Specifically, insurance (life, disability and medical) issues, ESOPs and deferred compensation plans, private and public retirement plans and distribution rules are reviewed in-depth. 2.5 overall GPA.
Prereq.: Permission of director.

FIN 6900 Financial Accounting and Finance for Decision Making 4 s.h.
A survey of the fundamental concepts of financial accounting employed by general managers. Additionally, a survey of the concepts, principles, and practices of financial management used by general managers and the links between the two types of information. Permit required.

FIN 6902 Financial Accounting and Finance for Decision Making 1-2 s.h.
Participants be able to utilize foundational concepts of accounting and finance to analyze their company's financial statements and determine the condition of a business. Further, participants will learn how to utilize key financial ratios, which capture key elements of a firm's performance, to be better positioned to make more informed decisions.
Prereq.: Graduate standing.

FIN 6910 Business Internship 1-3 s.h.
Provides graduate students the opportunity to relate theory to practice through on-the-job work experience with a participating organization. The internship will serve as an elective MBA course.
Prereq.: Completion of level I MBA coursework and six semester hours of level II MBA coursework.

FIN 6912 Financial Statement Analysis 2 s.h.
This course provides an understanding of financial analysis with emphasis upon decision making. Annual reports and mini-cases involving real companies are used to illustrate important concepts and financial analysis techniques. Major topics include the analysis of the income statement, cash flow statement, balance sheet, and detailed examination of various financial ratios and their significance.
Prereq.: Graduate standing and FIN 6902.

FIN 6923 Corporate Financial Management 3 s.h.
Participants will gain an understanding of financial analysis techniques that are used when evaluating businesses, projects, budgets and other related decisions. Participants will develop a set of analytical tools for conducting historical analysis (analysis of the income statement, cash flow statement, balance sheet, interpretation of various financial ratios) as well tools associated with capital budgeting, capital structure and cost of acquiring capital.
Prereq.: Graduate Standing.

FIN 6924 Securities Analysis 3 s.h.
The major emphasis will be an in-depth, fundamental analysis of the investment merits of the common stock of a firm. This study will be accomplished by applying the appropriate analytical principles and valuation techniques to the firm's financial statements. A research paper will be required.
Prereq.: FIN 6923.

FIN 6939 Multinational Accounting and Finance 3 s.h.
A cross-functional examination of selected topics in international accounting and finance with emphasis on developing research and problem-solving skills. Cases will be presented that teach the strategy and tactics of multinational corporate reporting and financial management.
Prereq.: FIN 6923.

FIN 6945 Business Valuation 3 s.h.
A study of business valuation techniques currently used in valuing publicly traded and private equity.
Prereq.: "C" or better in FIN 3720 or FIN 6900.

FIN 6953 Advanced Financial Analysis 3 s.h.
Applications of financial analysis to business consulting. Includes case studies and practical implementation strategies.
Prereq.: FIN 6923.

FIN 6968 Special Topics in Finance 1-3 s.h.
Topics may vary from semester to semester and will be announced with prerequisites and hours. May be repeated.
FIN 6970 Seminar in Finance 3 s.h.
Specific topics selected by the staff from timely and controversial work published in the field.
Prereq.: All core courses, plus at least six hours (6900-level) in the finance concentration, or permission of instructor.

FIN 6996 Research Problems 1-4 s.h.
Special research project under the supervision of a graduate faculty member. Credit will be determined in each case in light of the nature and extent of the project.
Prereq.: Fifteen hours of level II MBA coursework or permission of MBA director.

Economics

ECON 1501 Economics in Action 3 s.h.
An introduction to the United States' economic system and institutions through the examination of current economic problems. Not applicable for a major or minor in economics. Credit will not be given for 1501 if a student has already received credit for ECON 2610 or its equivalent.
Gen Ed: Social Science.

ECON 1502 Panic and Prosperity, United States Economic Policy Since the Great Depression 3 s.h.
Examines the crises and successes of the American economy since 1929, and how the economic policies of different presidential administrations affected the lives of U.S. citizens. Not applicable towards a major or minor in economics.
Gen Ed: Social Science.

ECON 1503 Rich and Poor: Diversity and Disparity in the United States Workplace 3 s.h.
Examines how labor markets determine the distribution of income and the dramatic changes in the composition of the American labor force. Explores such issues as the widening gap between low and upper income groups, the characteristics of the poor, affirmative action, the glass ceiling, the mommy track, and family-friendly working environments. Not applicable towards a major or minor in economics.
Gen Ed: Social Science.

ECON 1504 Economics of Aging 3 s.h.
An introduction to the economic consequences of an aging population and the economic status of the aged. Topics include income adequacy in old age, retirement decisions, retirement income planning, social security income, employer-sponsored pensions, and financing health care. Not applicable towards a major or minor in economics.
Prereq.: ECON 1501 or GERX 1501.

ECON 1505 Introduction to Personal Financial Literacy 3 s.h.
An introduction to personal financial planning. Topics covered include budgeting, the use of credit, taxes, savings accounts, investment strategies, insurance, buying a home, career planning, and retirement planning. Students will gain the knowledge and resources to be better prepared for their financial future.

ECON 2610 Principles 1: Microeconomics 3 s.h.
Introduction to the theory of markets, including the behavior of consumers and the conduct of private and public business enterprise. Effects of monopoly and competition on private and social welfare. The role of government in promoting the economic welfare of consumers, workers, and minorities.
Prereq.: Level 20 or higher on the math placement exam.
Gen Ed: Social Science.

ECON 2630 Principles 2: Macroeconomics 3 s.h.
Studies of growth, inflation, and unemployment at the national level and the performance of the U.S. economy in the global setting. The impacts of national economic policies on individual and social welfare. An extensive discussion and evaluation of the U.S. banking system and its effects on individuals and businesses.
Prereq.: ECON 2610.
Gen Ed: Social Science.

ECON 2631 Introductory Macroeconomics for Education Majors 3 s.h.
Measurement of the national economy's performance (growth, inflation, and unemployment), the banking system, the impact of government on macroeconomic performance, and international macroeconomics. Principles of personal finance, including budgeting, the use of credit, and financial planning are also discussed. Open only to education majors. Credit will not be given for both ECON 2630 and ECON 2631.
Prereq.: FOUN 1501 and ECON 2610.

ECON 3701 Money and Banking 3 s.h.
Organization and operation of commercial banking in the United States; central banking under the Federal Reserve System; basic theory. Monetary policy as a determinant of national income.
Prereq.: ECON 2630.

ECON 3702 Public Finance 3 s.h.
The development and present status of public finance: federal, state and local expenditures and taxation; theories of tax incidence, axioms of taxation, theories in justification and government spending; tax reform. Study of the techniques of fiscal policy with emphasis on its role as a determinant of the level of national income.
Prereq.: ECON 2610.

ECON 3703 Behavioral Economics 3 s.h.
Uses insights from economics and psychology to explain why normally rational people make poor choices in their lives, be it in terms of money, health, education or long-term happiness. This introductory course explores the sources of poor economic choices and examines ways to improve them.
Prereq.: ECON 2610 or PSYC 1560.

ECON 3704 Emerging Economies in Asia 3 s.h.
Introduction to emerging economies in Asia, mainly in East Asia and India where the economies in recent decades have generally performed well compared with the rest of the world. Focus is on the development strategies and policies of the region's major economies with an aim in contrasting their experience with the industrialized nations in the West.
Prereq.: ECON 1501, ECON 2610, or ASST 1550.

ECON 3705 Environmental and Resource Economics 3 s.h.
Application of economic theory to environmental problems, analysis of policy alternatives for pollution abatement, and the conservation of exhaustible resources. Determination of efficient management of local and national pollution levels, including air, water, and toxic substances. Possible economic consequences associated with global warming.
Prereq.: ECON 1501 or ECON 2610.

ECON 3710 Intermediate Microeconomic Theory 3 s.h.
A systematic analysis of the theory of demand and the theory of the firm: production input and output choices, and some basic concepts of linear programming. An intensive analysis of the theory of the firm: competitive pricing, monopoly pricing, pricing in imperfect competition; and the theory of rent, profits, interest and wages.
Prereq.: ECON 2610, and either MATH 1552, MATH 1570, or MATH 1571; For Actuarial Science minors, the prerequisite is either MATH 1571 or MATH 1572.

ECON 3712 Intermediate Macroeconomic Theory 3 s.h.
The construction of national income and production accounts and the basic determinant of income, output, and employment. Determination of the level of employment, interest, and money through the classical versus Keynesian aggregate economics.
Prereq.: ECON 2630 and either MATH 1552, MATH 1570, or MATH 1571; For Actuarial Science minors, the prerequisite is either MATH 1571 or MATH 1572.

ECON 3720 Comparative Economic Systems 3 s.h.
An examination of the recent world-wide trend toward free market economy, giving particular attention to basic processes such as resource allocation and product distribution. Frequent references are made to the failure of Socialism in the USSR and the new approach in Russia, Eastern Europe and China toward market economies.
Prereq.: ECON 1501 or ECON 2630.
ECON 3724  Public Budgeting  3 s.h.
Study of the politics, theories, and techniques of public budgeting. Includes the process of budget preparation, adoption and execution. Topics include debt management and capital budgets. (This course is cross-listed with POL 3724.)
Prereq.: POL 3720.

ECON 3740  Sports Economics  3 s.h.
Economic analysis of individual, team, and league sports. This course focuses not only on the market structure and industrial organization of sports leagues, but also addresses the public finance issues of municipal stadium construction and the labor issues involved with free agency and salary caps.
Prereq.: ECON 2610.

ECON 3788  Statistics for Business and Economics 1  3 s.h.
Introduction to statistical methods in data analysis and forecasting. Topics include descriptive statistics, probability, sampling and sampling distributions, and hypothesis testing. Practical application of statistical procedures is incorporated into regularly scheduled computer workshops. Credit will not be given for ECON 3788 if a student has already received credit for ECON 3790 or its equivalent.
Prereq.: ECON 2610.

ECON 3789  Statistics for Business and Economics 2  3 s.h.
This course builds on concepts introduced in ECON 3788. Specific topics include hypothesis testing, regression analysis, ANOVA and time series analysis. Practical application of statistical procedures is incorporated into regularly scheduled computer workshops. Credit will not be given for ECON 3789 if a student has already received credit for ECON 3790 or its equivalent. 3 s.h.
Prereq.: ECON 3788.

ECON 4810  Managerial Economics  3 s.h.
An application of economic analysis to business problems. Emphasis upon executive decisions for the allocation of resources.
Prereq.: ECON 2610.

ECON 4855  Health Economics  3 s.h.
Application of basic principles to the study of the health care industry. Topics include the supply and demand of medical care, the effects of private and public insurance on the health care industry, trends in health care costs, public policies to equalize access to medical care and the dilemma caused by the improvement in life-sustaining technology.
Prereq.: ECON 2610.

ECON 4860  Selected Topics in Economics  3 s.h.
Advanced study of selected topics in economic analysis and issues in economic policy. May be repeated once with different topic.
Prereq.: ECON 2610 and ECON 2630.

ECON 4870  Economics Internship  3 s.h.
The practical application of economic knowledge and statistical skills in the workplace. Students assist professionals in various kinds of industrial, financial, and public service organizations.
Prereq.: By permit only, minimum GPA 2.5.

ECON 4880  Analysis of Economic Problems  3 s.h.
The application and extension of the student’s skills in economic analysis and statistical techniques to economic issues. The course covers sources of data, exploratory data techniques, matching of data and statistical tests, interpretation and presentation of the results. Students demonstrate their command of research techniques by the completion of a research paper and oral presentation. Topics to be determined.
Prereq.: ECON 3710, ECON 3712, and ECON 3790; or ECON 3788 and ECON 3789; or ECON 3788 and BUS 3700.
Gen Ed: Capstone.

ECON 4898  Graduate Study in Selected Economic Topics  3 s.h.
For undergraduates taking courses in the MA in Economics program for credit toward an undergraduate degree. Credit cannot be later applied to a graduate degree. The student must meet the criteria for undergraduate students taking graduate coursework listed in the Graduate Bulletin. May be repeated with different graduate courses.
Prereq.: A minimum of 20 hours of coursework in economics at the 2600 level and above, permission of the chair, junior standing.

ECON 4899  Individual Study in Economics  1-4 s.h.
Individual study of a topic, area, or problem requiring in-depth reading, and a written project. May be repeated once with a different topic, area, or problem.
Prereq.: Junior or senior standing, by permit only.

ECON 5801  Economics of Industrial Organization  3 s.h.
A systematic analysis of the structure, conduct, and performance of American industry. A quantitative analysis plus a comprehensive review of theoretical models of the market, firm behavior, and performance.
Prereq.: ECON 2610.

ECON 5806  History of Economic Thought  3 s.h.
Designed to provide students with an understanding of the development of economic ideas to include: Mercantilism, Physiocrats, the English Classical School, Utilitarianism, early Social Thought, Karl Marx, the German Historical School, Institutionalists and the Keynesian School.
Prereq.: ECON 2630.

ECON 5809  Current Problems in Money, Banking, and Financial Markets  3 s.h.
The financial market system, including money and capital markets. Current problems associated with trends in theory and practice. Theories of the interest rate and monetarism.
Prereq.: ECON 3701 or consent of instructor.

ECON 5811  International Trade  3 s.h.
Theories of international trade and specialization; free trade vs. protectionism; tariff and non-tariff barriers to international trade; international balance of payments and its components; the role of multinational enterprises in contemporary trade pattern; regional economic integrations and world trade; U.S. commercial policies.
Prereq.: ECON 2630.

ECON 5812  International Finance  3 s.h.
Theories of foreign exchange and capital movements, international payments, analysis of spot and forward foreign exchange markets, foreign exchange market arbitrage, speculation, and risk hedging. The Bretton Woods agreement and the contemporary international monetary system. The rise of international organizations and multinational enterprises in the international economy.
Prereq.: ECON 2630.

ECON 5822  Urban and Regional Economics  3 s.h.
Economic analysis of the problems of urbanized areas and the causes of the growth or decline in economic activity in small-area economics. Topics include benefit-cost analysis, economic base analysis, input-output applications, and the theory of location and agglomeration.
Prereq.: ECON 2610.

ECON 5824  Applied Time Series Analysis of Economic and Business Data  3 s.h.
An in-depth analysis of time series models and their applications to problems in economics and business. Emphasis on forecasting. Extensive use of standard computer programs.
Prereq.: ECON 2610 and STAT 4817 or ECON 3790 or (ECON 3788 and ECON 3789) or (ECON 3788 and BUS 3700).

ECON 5831  Labor Markets and the Economics of Unions  3 s.h.
Economic theory and analysis of labor as an input in the resource market; principles, labor problems, public policy; theories of the development of the labor movement; economic objectives of trade unions; problems in public control.
Prereq.: ECON 2610.
ECON 5843 Economics of Poverty, Transfers and Discrimination 3 s.h.
Examines the measurement and causes of poverty, trends in the distribution of income, and antipoverty programs and their effectiveness. Discussion of theories of discrimination, difficulties in measuring the impact of discrimination, and policies designed to reduce discrimination.
Prereq.: ECON 2610.

ECON 5850 Introduction to Game Theory 3 s.h.
Topics include (not limited to) Nash equilibrium, pure/mixed strategy, static/dynamic games, repeated games and coordination, perfect/incomplete information, etc.
Prereq.: ECON 2610.

ECON 5853 Applied Econometrics 3 s.h.
The practice of econometrics with emphasis on model construction, estimation, and interpretation of results. Applications in the private and public sectors involve the use of computers and economic software.
Prereq.: ECON 2630 and ECON 3788.

ECON 5856 Topics in Quantitative Economics 3 s.h.
Application of different tools of mathematical economics, computational economics, and econometrics in conjunction with economic theory to model economic problems of firms, consumers, financial institutions, and public sectors. Specific content of the course will vary with the instructor. May be repeated once with a different topic.
Prereq.: ECON 3788.

ECON 5861 SAS Programming for Data Analysis 3 s.h.
An introduction to SAS programming for data analytics. Topics include using SAS for data processing, manipulation, visualization, reporting, and statistical analysis. The objective is for students to develop statistical computing skills for problem solving and decision making. Cross-listed: STAT 5811.
Prereq.: STAT 2601 or STAT 3717 or STAT 3743 or ECON 3790, or ECON 3788 and ECON 3789, or ECON 3788 and BUS 3700.

ECON 6900 Statistical Problems 3 s.h.
A survey of the fundamental statistical techniques used in business with special emphasis on interpreting the results generated by statistical software. Techniques covered: hypothesis tests of means and proportions, estimation, chi-square tests, analysis of variance, correlation, and regression. Not applicable toward the M.A. in economics.

ECON 6904 Quantitative Methods for Economics 3 s.h.
A course designed to provide graduate students in economics with an opportunity to acquire the necessary skills in using the quantitative methods that are required to complete graduate-level economic theory and econometrics courses successfully. The course introduces the basic concepts and procedures of differential and integral calculus that are used in economic analysis, as well as the fundamental probability and statistics which are needed in the study of econometrics.

ECON 6912 Microeconomic Theory 3 s.h.
Study of demand and supply, consumer theory, the theory of the firm, various market structures, and Pareto efficiency.

ECON 6915 Health Policy 3 s.h.
A theoretical and empirical analysis of the health care sector. Topics include the demand for health care and health insurance, the perverse incentives of health insurance, moral hazard, physician and hospital behavior, and the role of competitive markets in the delivery of health care. Special emphasis is placed on the analysis of public policy, including financing and regulating the health care industry.
Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6921 Economic Analysis of Markets and Industries 3 s.h.
Participants will learn to analyze and understand the impact economic factors (e.g., information, consumer behavior, supply and demand) have on shaping markets and industries. Using this knowledge, participants will be capable of assessing the different types of economic strategies (e.g., product differentiation, pricing, advertising and signaling) an organization can employ to gain market power to realize economic profits.
Prereq.: Graduate standing.

ECON 6922 Macroeconomic Theory 3 s.h.
Examines models used to determine the value of various aggregate economic variables, such as the price level, national income, employment, interest rates, and wage rates.

ECON 6929 The Economics of Financial Markets and Institutions 3 s.h.
Study of the institutions, instruments, and markets that facilitate the distribution of financial resources throughout the economy. The course discusses the money, capital, and commodity markets. Also, the topics of accessing default risk and hedging against market risk are discussed.
Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6940 Financial Economics 3 s.h.
Study of various topics, including risk and the selection of the optimal monetary control tool, politics and monetary control, the financial firm as an optimizing institution, and portfolio theory.
Prereq.: ECON 6939 or permission of the instructor.

ECON 6941 Monetary Economics 3 s.h.
Study of the empirical analysis using multivariate time series methods, including the topics of distributed lag models, selection of the appropriate lag structures, causation versus correlation, and cointegration.
Prereq.: ECON 6922 or permission of the instructor.

ECON 6945 Public Finance 3 s.h.
Study of the role of the government in the economy. The topics covered will include expenditure analysis, theories of taxation, provision of public goods, fiscal federalism, and public choice theory.
Prereq.: ECON 6912.

ECON 6946 State and Local Public Finance 3 s.h.
Study of the special problems of financing subnational governments. Topics include the optimal level of local government spending, public choice through voting, public choice through migration, the combination of taxes used by state and local governments, the theory of tax incidence, the effect of intergovernmental grants, and expenditure patterns of local governments. Special attention will be given to local governmental grants and expenditure patterns of local governments, as well as local governments' role in financing education and transfer payments.
Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6952 Transfer Programs and Poverty 3 s.h.
A study of poverty and the effectiveness of antipoverty programs. Topics include defining and measuring poverty, trends in the rate of poverty and the distribution of income, causes of poverty, models of discrimination, effectiveness of government training programs, transfer programs and their effect on labor supply, and the financial stability of the Social Security retirement program.
Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6955 Antitrust and Market Structure 3 s.h.
Study of the pivotal court decisions that have determined the direction of antitrust law. Concentration is on the economic analysis of court decisions and the impact of the courts' decision on market structure. Topics covered include price fixing, mergers, monopolization, and exclusion practices.
Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6970 Economics Internship 3 s.h.
The practical application of economic knowledge and statistical skills in the workplace. Students assist participating professionals in various kinds of industrial, financial, and public service organizations. By permit only.
Prereq.: ECON 6912 and ECON 6922.
ECON 6976  ECONometrics  3 s.h.
Study of the fundamentals of econometric techniques that are useful for estimating causal economic relationships. The objectives include (1) analysis of the effects of exogenous factors on the variable whose behavior we seek to explain, (2) testing of hypotheses about new and existing economic theories, and (3) forecasting estimated economic relationships beyond the sample period for the purpose of planning and control. The course will focus on the practice of econometrics with extensive applications to a variety of real-world problems in many areas of economics.
Prereq.: ECON 6904.

ECON 6980  Applied Time Series Analysis and Forecasting  3 s.h.
Covers essential tools for time series analysis and forecasting with emphasis on how to apply those tools to analyze and forecast economic and business data. Topics include ARMA models, Time Series Decomposition, Exponential Smoothing, GARCH, VAR models, and Cointegration.
Prereq.: ECON 2610 and ECON 3789 or ECON 3790 or ECON 6976 or STAT 5817.

ECON 6981  International Finance  3 s.h.
Study of the foreign exchange market; the business and economic consequences of changes in domestic and foreign banking; central banking; and financial market policies. The development of various exchange rate standards, foreign currency markets, and the Eurocurrency and Eurobond markets.
Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6985  International Trade and Development  3 s.h.
Study of the determination of a country’s exports and imports, the social welfare consequence of trade, free trade versus restricted trade, preferential trading agreements, and the current composition and direction of U.S. trade. Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6988  Modeling in Financial Economics  3 s.h.
A study of modeling and evaluation of derivatives and bonds and risk management using derivatives. Topics cover various models in asset evaluation, such as bond price models, the Black-Sholes model, diffusion processes, and risk management. Also listed as STAT 6988.
Prereq.: STAT 4843 or STAT 6943 or ECON 6976 or ECON 2610 and ECON 3789 or ECON 3790 or ECON 6976 or STAT 5817.

ECON 6990  Special Topics in Economics  1-3 s.h.
Special interest topics selected by the staff in the following areas: economic education, economic theory, and applied economics analysis. May be repeated for a maximum of six hours toward a graduate degree.

ECON 6992  Data Analytics - Advanced SAS Programming  3 s.h.
This course is designed to provide students training in advanced SAS programming for data analysis. Main topics include SQL, Macro language, Econometrics-related procedures, working with large data set, etc. Crosslisted with STAT 6912.
Prereq.: ECON 6976 or equivalent and either ECON 5861 or STAT 5811.

ECON 6998  Research Seminar  3 s.h.
Applied quantitative research techniques will be discussed. Students are required to undertake an original quantitative research project in a field of economics and write a paper summarizing their results. Course may be taken concurrently with ECON 6976. Prereq.: ECON 6912 and ECON 6922.

ECON 6999  Master’s Thesis  3 s.h.
A research project under the supervision of a member of the department on the graduate faculty. The project typically extends the student’s research in ECON 6998.
Prereq.: a grade of “A” or “B” in ECON 6998 and a thesis proposal accepted by departmental committee.

Bachelor of Science in Business Administration in Accounting

CAREER OPPORTUNITIES
The demand for accounting graduates continues to grow as financial transactions become more sophisticated, as tax laws change, and as new government regulations are introduced.

All types of organizations—public and private—require accounting personnel. Those working in private accounting can specialize in financial accounting/reporting, cost accounting, accounting information systems, managerial accounting, internal auditing, tax accounting, budgeting, and financial analysis. Those working in public accounting can specialize in external auditing, management advisory services, tax accounting, and valuation services.

Employers of accountants include: public accounting firms, banks, retail and wholesale businesses, manufacturers, pension funds, foundations, hospitals, universities, churches, nonprofit organizations, government agencies, and consulting companies. Self-employed accountants may set up their own offices and work for private clients.

STUDENT EXPERIENCES
Accounting students at Youngstown State University have the opportunity to build their technical and leadership skills through various WCBA student organizations. Specific organizations related to accounting include the Institute of Management Accountants and Beta Alpha Psi, the professional business organization for accounting, finance and information system majors. Students can also become student members of the American Institute of CPA’s, the Ohio Society of CPA’s and the Institute of Management Accountants.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship markedly improves a student’s job prospects upon graduation.

REQUIREMENTS TO SIT FOR THE CERTIFIED PUBLIC ACCOUNTANTS (CPA) EXAM
Ohio residents wishing to sit for the Certified Public Accountant (CPA) exam are currently required to have completed 150 semester hours of education. It should be noted however that proposed legislation would reduce the education requirement to sit for the exam to 120 semester hours of study. For those interested in meeting the current 150 semester hour requirement the WCBA offers the Master of Accountancy (MAcc) Program. This program is a 30 semester hour graduate program. With proper planning and coordination, a student can complete both a BSBA and MAcc in five years. For more information on sitting for the CPA exam, please contact the Accounting Board of Ohio (http://www.acc.ohio.gov/).

For more information, visit the Lariccia School of Accounting and Finance (http://www.ysu.edu/academics/williamson-college-business-administration/).

COURSE  TITLE  S.H.
FIRST YEAR REQUIREMENT - STUDENT SUCCESS SEMINAR
YSU 1500  Success Seminar  1-2
or SS 1500  Strong Start Success Seminar
or HONR 1500  Intro to Honors

GENERAL EDUCATION
ENGL 1550  Writing 1  3-4
or ENGL 1549  Writing 1 with Support
ENGL 1551  Writing 2  3
Bachelor of Science in Business Administration in Accounting

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Total Semester Hours

Year 1

Fall

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Year 2

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<tr>
<td>ECON 3788</td>
<td>Statistics for Business and Economics 1</td>
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<tr>
<td>MKTG 3702</td>
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<tr>
<td>MGT 3789</td>
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<tr>
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Year 3

Fall

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<td>ACCT 3702</td>
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<td>ACCT 3709</td>
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<td>ACCT 3711</td>
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<td>ACCT 4813</td>
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<td>MGT 3714</td>
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Year 4

Fall

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<td>Operations Management</td>
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<td>BUS 3715</td>
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Semester Hours

Year 4

Spring

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<tr>
<td>MGT 4850</td>
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Semester Hours

Year 5
Finance students at Youngstown State University have the opportunity to build their knowledge and leadership skills through a variety of student organizations and-experiences, including the Student Investment Fund.

**STUDENT EXPERIENCES**

Finance students at Youngstown State University have the opportunity to build their knowledge and leadership skills through a variety of WCBA student organizations (http://www.ysu.edu/academics/williamson-college-business-}

---

**Learning Outcomes**

The student learning outcomes for majors within the Lariccia School of Accounting and Finance are as follows:

- Students will be able to identify, formulate, and solve discipline-specific problems within the context of business, ethical, and societal constraints;
- Students will learn to function and communicate (in writing and orally) both individually and within multidisciplinary teams;
- Students will develop enhanced technology skills by being exposed to assignments requiring advanced computer/spreadsheet knowledge, expanded presentation activity (e.g. PowerPoint in the oral-intensive courses), and required analysis of financial statements;
- Students will be given opportunities to work with and be exposed to the business community and professionals through internship opportunities, student organizations, and social functions;
- Students will obtain an understanding of professional and ethical responsibilities and a recognition of and an appreciation for the need to engage in life-long learning.

**Bachelor of Science in Business Administration in Finance, Certified Financial Planning Track**

The Certified Financial Planner (CFP) track focuses on working directly with individuals, helping them to plan for and meet their short- and long-term financial goals. Students must learn to fully understand the client’s financial situation as well as financial laws and legal documents. Investment types commonly dealt with include investments and security planning, estate planning, tax planning, employee benefits planning, and insurance planning.

**CAREER OPPORTUNITIES**

The demand for qualified personal financial planners is growing rapidly. This demand is due in part to the many Americans who are reaching retirement age in need of personal financial planning expertise. A good financial planner understands investments, taxes, estate planning issues, and how to talk and listen to people. They work in financial services, banks, wealth management companies and independently as entrepreneurs in the field. YSU students who have successfully completed all requirements of BS in Finance CFP Track satisfy the education coursework requirement of the CFP Board and are eligible to sit for The CFP® Certification Examination.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship increases a student's job opportunities upon graduation.

**STUDENT EXPERIENCES**

Finance students at Youngstown State University have the opportunity to build their knowledge and leadership skills through a variety of WCBA student organizations (http://www.ysu.edu/academics/williamson-college-business-
Select 7 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN MGT, MKTG). Students should consider at least one internship for credit.

Total Semester Hours 120-122

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<td>FIN 4833</td>
<td>Retirement Plans &amp; Employee Benefits (fall term only) 4</td>
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Upper Level Business Course 3
MGT 3761 Management Information Systems 3
MGT 3789 Operations Management 3

Spring
FIN 4838 Financial Plan Development (spring term only) 4
MGT 4850 Strategic Management and Leadership 3
FIN 3730 Investment Planning 4

Semester Hours 16

Total Semester Hours 120-122

To enroll in upper level Business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Learning Outcomes
The student learning outcomes for majors within the Lariccia School of Accounting and Finance are as follows:

- Students will be able to identify, formulate, and solve discipline-specific problems within the context of business, ethical, and societal constraints;
- Students will learn to function and communicate (in writing and orally) both individually and within multidisciplinary teams;
- Students will develop enhanced technology skills by being exposed to assignments requiring advanced computer/spreadsheet knowledge, expanded presentation activity (e.g., PowerPoint in the oral-intensive courses), and required analysis of financial statements;
- Students will be given opportunities to work with and be exposed to the business community and professionals through internship opportunities, student organizations, and social functions;
- Students will obtain an understanding of professional and ethical responsibilities and a recognition of and an appreciation for the need to engage in life-long learning.

Bachelor of Science in Business Administration in Finance, Financial Management Track

The Financial Management track of the Finance major focuses on managing the finances of an organization as opposed to individuals. Examples of duties include analyzing financial information and competitor data, making recommendations based on the financial information, and monitoring outcomes. Employers hiring Financial Management track students include banks, investment companies, insurance companies, financial institutions, and publicly traded and privately held companies.

career opportunities
Financial Managers can be found in nearly all firms, government agencies, and organizations spending a great deal of time developing strategies to help the organization realize its long-term goals. Financial Managers supervise the preparation of financial reports, guide investment activities, and execute cash-management strategies.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing
a career-related internship increases a student’s job opportunities upon graduation.

**student experiences**

Finance students at Youngstown State University have the opportunity to build their leadership skills through various WCBA student organizations (http://www.ysu.edu/academics/williamson-college-business-administration/student-organizations-and-experiences/). Housed in the Larticcia School of Accounting and Finance are the Student Investment Fund, the Institute of Management Accountants, and Beta Alpha Psi, the professional business organization for accounting, finance and information system majors.

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<td>Social and Personal Awareness (6 s.h.)</td>
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The Williamson College of Business Administration offers a Bachelor of Science in Business Administration degree with a major in Business Economics.

Economics provides critical decision-making tools in all areas of business. To the manager of a firm, microeconomics theory provides strategies on how to maximize profit, techniques for measuring how customers will respond to changes in price, and how the potential profitability of the firm will vary with the level of competition. Macroeconomics theory discusses why inflation, unemployment, and interest rates change. For a manager, an important issue is how the federal government may try to change the state of the economy and how that will alter business opportunities.

Business Economics majors at Youngstown State University take courses in intermediate microeconomic theory, intermediate macroeconomic theory and complete a capstone project involving data analysis. Business economics majors also take four upper division electives that introduce them to different specializations, such as international trade, money and banking, public finance, and labor markets.

**JOB OPPORTUNITIES**

The Business Economics major prepares students for careers in corporate, government, and the nonprofit fields. Employers are looking for individuals with an understanding of the global economy and its connection to organizations, individuals and society. Business economists work for major corporations, investment firms and government agencies, gathering and analyzing critical information that can be used to react to fluctuating markets and business cycles. The job outlook for business economics is expected to grow due to the driven need for quantitative methods to analyze and forecast business, sales and other economic trends.

**STUDENT EXPERIENCES**

Business Economics majors at Youngstown State University have the opportunity to build their knowledge and leadership skills in their field through various student leadership organizations such as Actuarial Science Club, Economics Club, Beta Gamma Sigma, Enactus, and the Student Investment Fund.

### 4 + 1 BACHELOR/MASTER PROGRAM

The accelerated “4+1” program allows students to earn the MA in Economics in one year after completing their bachelor’s degree. Students pursuing the MA in Financial Economics can complete the degree in three semesters. Undergraduate students can apply to take graduate courses after completing 78 semester hours with a GPA of 3.3 or higher. Students can take a maximum of nine semester hours of graduate coursework that can count both toward a bachelor’s degree and either the MA in Economics or the MA in Financial Economics. Students who successfully complete the master’s courses are encouraged to apply for a graduate assistantship.

### 4 + 1 Bachelors/Master Program

For more information, visit Business Economics ([http://www.ysu.edu/academics/college-liberal-arts-social-sciences/economics-major/](http://www.ysu.edu/academics/college-liberal-arts-social-sciences/economics-major/)).

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Art and Humanities (1 course) 3 SH met through PHIL 2628 - required course for major 3
PHIL 2628 Business Ethics (required for major) 3
Natural Sciences (2 courses, 1 with lab) (7 s.h.) 7
Social Science (2 courses) 6
Social and Personal Awareness (2 courses) 6

BUSINESS TOOL COURSES
Business Tool courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

BUS 1500 Exploring Business 3
MATH 1552 Business Applications of Microsoft Excel 3
MGT 3789 Applied Mathematics for Management Students 4
MKTG 3703 Business Writing 3

BUSINESS CORE COURSES
To enroll in upper level business courses student must have successfully completed ENGL 1549 or 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool course AND have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

BUS 3715 Principles of International Business 3
BUS 3700 Business Analytics 3
FIN 3720 Business Finance 3
MKTG 3702 Business Professionalism 1
MGT 3725 Fundamentals of Management 3
MGT 3761 Management Information Systems 3
MGT 3789 Operations Management 3
MGT 4850 Strategic Management and Leadership 3

ECON 2610 Principles 1: Microeconomics 3
ECON 2630 Principles 2: Macroeconomics 3
MGT 2604 Legal Environment of Business 1 3
ACCT 2602 Financial Accounting 3
MGT 3789 Business Writing 3
ACCT 2603 Managerial Accounting 3
ENGL 3742 Business Writing 3
ECON 3788 Statistics for Business and Economics 1 3

ECONOMICS MAJOR REQUIREMENTS
ECON 3710 Intermediate Microeconomic Theory Spring term only 3
ECON 3712 Intermediate Macroeconomic Theory Fall term only 3
ECON 4880 Analysis of Economic Problems 3

ECONOMICS UPPER LEVEL COURSES 12
Select 12 SH of ECON upper level courses.

BUSINESS UPPER LEVEL COURSES 6
Select 6 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG).

NON-BUSINESS ELECTIVES 8

Total Semester Hours 120-122

Year 1

Fall S.H.
YSU 1500 Success Seminar 1-2
or SS 1500 or Strong Start Success Seminar
or HONR 1500 or Intro to Honors
ENGL 1550 Writing 1 3-4
or ENGL 1549 or Writing 1 with Support
BUS 1500 Exploring Business 3
MATH 1552 Applied Mathematics for Management 4
CMST 1545 Communication Foundations 3

Semester Hours 14-16

Spring
ENGL 1551 Writing 2 3
PHIL 2628 Business Ethics 3
ECON 2610 Principles 1: Microeconomics 3
BUS 2600 Business Applications of Microsoft Excel 3

Semester Hours 15

Year 2

Fall
ACCT 2602 Financial Accounting 3
MGT 2604 Legal Environment of Business 1 3
ENGL 3742 Business Writing 3
ECON 2630 Principles 2: Macroeconomics 3

Semester Hours 16

Spring
ACCT 2603 Managerial Accounting 3
MKTG 3702 Business Professionalism 1
ECON 3788 Statistics for Business and Economics 1 3
GE: Social & Personal Awareness 3
GE: Natural Science 3
GE: Arts & Humanities 3

Year 3

Fall
ECON 3712 Intermediate Macroeconomic Theory 3
MKTG 3703 Marketing Concepts and Practice 3
BUS 3715 Principles of International Business 3
BUS 3700 Business Analytics 3
MGT 3725 Fundamentals of Management 3

Semester Hours 15

Spring
ECON 3710 Intermediate Microeconomic Theory 3
MGT 3761 Management Information Systems 3
FIN 3720 Business Finance 3
Upper Level Business Course 3
Upper Level Economics Course Internship Recommended 3

Semester Hours 15

Year 4

Fall
MKTG 3789 Operations Management 3
ECON 4880 Analysis of Economic Problems 3
Upper Level Business Course 3
Upper Level Economics Courses 3
Non Business Elective 2

Semester Hours 14

Spring
MGT 4850 Strategic Management and Leadership 3
Upper Level Economics Course 3
Upper Level Economics Course 3
Non-Business Courses 6

Semester Hours 15

Total Semester Hours 120-122
ENGL 1550, ENGL 1551, Business Tool and upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

To enroll in upper level business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

NOTE: This schedule is intended solely to illustrate that it is possible for a "typical" student to complete the BA in Economics in four years. The coursework any individual student needs to take will differ. Specifically, the coursework required will vary depending on the mathematics courses you have already taken when you start the degree. Some students will need to take additional courses prior to taking MATH 1510 College Algebra while other students may have already taken a course in calculus and would not need to take either MATH 1510 College Algebra or MATH 1552 Applied Mathematics for Management. The coursework taken will also depend on a student’s career goals. It is extremely important that you meet with an advisor to discuss your career aspirations and which courses you personally will need to take.

**Bachelor of Arts in Economics**

A student can earn either a Bachelor of Arts (BA) in Economics or the Bachelor of Science in Business Administration (BSBA) in Business Economics (http://www.ysu.edu/academics/college-liberal-arts-social-sciences/economics-major/) through the Williamson College of Business Administration. Either degree may be earned in eight semesters if students average 15 hours per semester.

To earn the BA degree, the student must satisfy all the degree requirements in the WCBA and take 32 semester hours of coursework from the Department of Economics.

The BA degree is designed to prepare students for careers both in the public and private sectors and for additional study in the field of economics. Economics graduates are qualified for a wide variety of positions in the financial sector and jobs in business and government. Students frequently use a major in economics as preparation for law school. Graduates choosing to pursue additional study in economics have been very successful in gaining admission to graduate and doctoral programs.

Students who have completed 78 semester hours with a grade point average above 3.3 are eligible to participate in the department’s "4+1" program. Students in the program can take up to nine hours of coursework at the masters level which can count both towards their BA and an MA. Students who take nine hours can complete an MA in Economics in one year after graduating with their bachelor’s degree.

### Requirement may be satisfied by ECON 2610 and ECON 2630 in the major

<table>
<thead>
<tr>
<th>Requirement</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social and Personal Awareness (2 courses)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Foreign Language Requirement**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FNLG 1550 Elementary Foreign Language</td>
<td>4</td>
</tr>
<tr>
<td>FNLG 2600 Intermediate Foreign Language</td>
<td>4</td>
</tr>
</tbody>
</table>

**Major Requirements**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2610 Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630 Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3710 Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3712 Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 4880 Analysis of Economic Problems</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3788 Statistics for Business and Economics 1</td>
<td>6</td>
</tr>
<tr>
<td>ECON 3788 &amp; BUS 3700 Economics and Business Analytics</td>
<td>6</td>
</tr>
<tr>
<td>Economics Upper-Division Courses (12 s.h.)</td>
<td>12</td>
</tr>
<tr>
<td>Minor</td>
<td>18</td>
</tr>
<tr>
<td>Elective Hours</td>
<td>22</td>
</tr>
</tbody>
</table>

**Total Semester Hours**: 120-122

All students must complete a 120 semester hours, 39 hours must be upper-division (courses at the 3700 level or higher)

Students intending to apply for PhD programs in economics should consider taking the following:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1571 Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1572 Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2673 Calculus 3</td>
<td>4</td>
</tr>
<tr>
<td>MATH 3720 Linear Algebra and Matrix Theory</td>
<td>3</td>
</tr>
</tbody>
</table>

**NOTE**: This schedule is intended solely to illustrate that it is possible for a "typical" student to complete the BA in Economics in four years. The coursework any individual student needs to take will differ. Specifically, the coursework required will vary depending on the mathematics courses you have already taken when you start the degree. Some students will need to take additional courses prior to taking MATH 1510 College Algebra while other students may have already taken a course in calculus and would not need to take either MATH 1510 College Algebra or MATH 1552 Applied Mathematics for Management. The coursework taken will also depend on a student’s career goals. It is extremely important that you meet with an advisor to discuss your career aspirations and which courses you personally will need to take.

### Year 1

**Fall**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>YSU 1500 or SS 1500 or HONR 1500 Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>ENGL 1550 Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>ENGL 1549 Writing 1 with Support</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545 Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1552 or MATH 157 Calculus 1 or MATH 157 Calculus 1</td>
<td>3</td>
</tr>
<tr>
<td>Arts and Humanities (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (2 courses, 1 with lab)</td>
<td>7</td>
</tr>
<tr>
<td>Social Science (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>GE: SPA</td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENCON 2610 Principles 1: Microeconomics (fulfills the General Education Social Science requirement)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551 Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>GE Arts &amp; Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>
Learning Outcomes

To be competitive in the job market, economics majors must have knowledge of microeconomics, macroeconomics, and statistical techniques. They must also be able to apply the theory and statistical techniques they have learned to public policy issues and business problems and be able to present their conclusions. The learning objectives of the economics major are as follows:

Microeconomics

The student will be able to discuss the characteristics of different market structures and how the structure of a market affects consumers. The student will also be able to explain the conditions that must be met for an economy to use its resources in the most efficient manner possible.

Macroeconomics

The student will be able to explain the major macroeconomic goals: rapid economic growth, high employment, and stable prices and how the tools of monetary and fiscal policy can be used to achieve macroeconomic goals.

Statistical Analysis

The student will be able to interpret descriptive statistics, the results of hypothesis tests, and regression estimates.

Communication Skills

The student will be able to give a well-prepared presentation on an economic problem. By well-prepared, it is meant that the presentation clearly frames the topic of the presentation, discusses the relevant theory and evidence, correctly documents references, and proposes a conclusion consistent with the theory and evidence.

"4+1" Bachelor's/Master's Program

The accelerated "4+1" program allows students to earn the MA in Economics in one year after completing their bachelor’s degree. Students pursuing the MA in Financial Economics can complete the degree in three semesters. Undergraduate students can apply to take graduate courses after completing 78 semester hours with a GPA of 3.3 or higher. Students can take a maximum of nine semester hours of graduate coursework that can count both toward a bachelor's degree and either the MA in Economics or the MA in Financial Economics. Students who successfully complete the master's courses are encouraged to apply for a graduate assistantship.

Qualified students, including students who are not economics majors, can take the courses listed below after having met the following requirements:

- A grade of "A" in ECON 2630 Principles 2: Macroeconomics (fulfills the General Education Social Science requirement)
- A grade of "A" or "B" in ECON 3710 Intermediate Microeconomic Theory
- A grade of "A" or "B" in MATH 1571 Calculus 1
- A grade of "A" or "B" in ECON 3712 Intermediate Macroeconomic Theory (Required for major)
- A grade of "A" or "B" in ECON 3710 Intermediate Microeconomic Theory (Required for major)
- A grade of "A" or "B" in MATH 1571 Calculus 1 or MATH 1571 Calculus 1; OR
- A grade of "A" in ECON 2610 Principles 1: Microeconomics, MATH 1571 Calculus 1, and MATH 1572 Calculus 2 (in this case ECON 6912 Microeconomic Theory is taken in place of ECON 3710 Intermediate Microeconomic Theory)
- A grade of "A" or "B" in ECON 3712 Intermediate Macroeconomic Theory, and a grade of "A" or "B" in MATH 1552 Applied Mathematics for Management or MATH 1570 Applied Calculus 1 or MATH 1571 Calculus 1; OR
- A grade of "A" in ECON 2630 Principles 2: Macroeconomics, MATH 1571 Calculus 1, and MATH 1572 Calculus 2 (in this case ECON 6922 Macroeconomic Theory is taken in place of ECON 3712 Intermediate Macroeconomic Theory)
- A grade of "A" or "B" in ECON 3712 Intermediate Macroeconomic Theory, and a grade of "A" or "B" in MATH 1552 Applied Mathematics
- A grade of "A" or "B" in ECON 3712 Intermediate Macroeconomic Theory, and a grade of "A" or "B" in MATH 1552 Applied Mathematics
- A grade of "A" or "B" in ECON 3712 Intermediate Macroeconomic Theory, and a grade of "A" or "B" in MATH 1552 Applied Mathematics
for Management or MATH 1570 Applied Calculus 1 or MATH 1571 Calculus 1

- ECON 6945 Public Finance –
  - A grade of “A” or “B” in ECON 6912 Microeconomic Theory
- ECON 6976 Econometrics –
  - A grade of “A” or “B” in ECON 6904 Quantitative Methods for Economics; OR
  - A grade of “A” in ECON 3790 or STAT 3743 Probability and Statistics, and a grade of “A” in MATH 1552 Applied Mathematics for Management or MATH 1570 Applied Calculus 1 or MATH 1571 Calculus 1

**Minor in Accounting**

Youngstown State University students are invited to enhance their educational experience with a minor in Accounting. Accounting can be described as a service activity, a descriptive/analytical discipline, and an information system. As a service activity, it provides users with quantitative financial information to aid in making business-related decisions. The minor in Accounting can be met through successful completion of the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3701</td>
<td>Intermediate Accounting 1</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 3702</td>
<td>Intermediate Accounting 2</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 3711</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours**

18-20

Students interested in declaring a minor in Accounting need to complete an Intra University Transfer Request form with their academic advisor. Students pursuing a WCBA minor must meet all course prerequisites to enroll WCBA courses, including a minimum 2.5 overall GPA for upper level business courses. WCBA minor courses must be completed with the grade “C” or higher and cannot be taken credit/no credit.

**Minor in Economics**

An economics minor complements many different majors. Students taking a minor in economics must meet the requirements of one of the following tracks:

- Economics
- Economics with Statistics

Courses at the 1500-level cannot be counted toward the minor. ECON 3790 cannot be counted as an elective in this track.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>12 semester hours of upper-division economics electives other than ECON 3790</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours**

18

**Minor in Economics with Statistics**

An economics minor complements many different majors. Students taking a minor in economics must meet the requirements of one of the following tracks:

- Economics
- Economics with Statistics

Courses at the 1500-level cannot be counted toward the minor.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3790</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>9 semester hours of electives in economics at the 3700-level or higher</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours**

20

**Minor in Finance**

Youngstown State University students are invited to enhance their educational experience with a minor in Finance. The role of finance professionals is to provide information and analyses to organizations and individuals that will result in superior decision making. Students interested in learning more about the field of finance through a minor would need to complete the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3715</td>
<td>Planning Your Financial Future (formerly FIN 2615)</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3720</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3730</td>
<td>Investment Planning</td>
<td>4</td>
</tr>
<tr>
<td>FIN 4835</td>
<td>Advanced Business Finance</td>
<td>4</td>
</tr>
<tr>
<td>FIN 4836</td>
<td>Financial Markets</td>
<td>4</td>
</tr>
<tr>
<td>or FIN 4853</td>
<td>Financial Analysis</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours**

18

Students interested in declaring a minor in Finance need to complete an Intra University Transfer Request form with their academic advisor. Students must meet course prerequisites, including a minimum 2.5 overall GPA to enroll in upper level business courses. WCBA courses must be completed with the grade of a “C” or higher and cannot be taken Credit/No Credit.
Department of Management and Marketing

Welcome from the Chair

Greetings from the Department of Management and Marketing. Our goal is to provide our students with an applied education that will prepare them for success upon graduation. We do this through real-world class projects, professional skills, and certifications such as Adobe Suite, Google Analytics, Excel, etc., active student organizations, and paid, for-credit internships. Our faculty members have extensive experience in the business world that enables them to provide our students with knowledge and skills that go beyond the traditional classroom.

Whether you’re interested in advertising, sales, marketing, international business, human resource management, supply chain management, entrepreneurship, nonprofit leadership, or business administration, we have the program to fit your needs.

Students in the Department of Management and Marketing have a wide-range of professional student organizations to choose from including: The Society for Human Resource Management (SHRM), Pi Sigma Epsilon (professional sales organization), Students in Information and Supply Chain Association, ENACTUS (national entrepreneurship organization), American Marketing Association (AMA), American Advertising Federation (AAF), Student Nonprofit Leadership Organization (SNLO) and International Business Organization (IBO). Students who excel academically are invited to join Beta Gamma Sigma, the international honor society for business students.

The department is also home to the Center for Entrepreneurship and the Center for Non-Profit Leadership which offer both minors and certificates.

If you have any questions or would like to visit the Williamson College of Business Administration, please contact me any time.

Dr. Bruce Keillor, Chair
Department of Management and Marketing
bdkeillor@ysu.edu
(330) 941-3080

MAJORS

- Advertising and Public Relations (p. 571)
- Business Administration (p. 572)
- Human Resource Management (p. 574)
- Management (p. 576)
- Marketing: Management Track (p. 578)
- Marketing: Sales Track (p. 579)

MINORS

- Advertising and Public Relations
- Business (non Business majors)
- Employee Relations
- Entrepreneurship
- Marketing
- Management
- Management Information System
- Nonprofit Leadership
- Sales

CERTIFICATES

- Enterprise Resource Planning (ERP) (p. 581)
- Entrepreneurship (p. 608)

-

Leadership (p. 581)
- Nonprofit Leadership (p. 608)

Advertising

ADV 3710 Basic Public Relations 3 s.h.
Study of the management function which investigates and evaluates public attitudes, policies, means, and techniques used in the field to earn public understanding and acceptance.
Prereq.: ENGL 1551 and GPA of 2.5.

ADV 3711 Marketing Communications 3 s.h.
Examines the integration of promotional activities within a marketing context. Presents the marketing communication role of the four elements in the promotional mix then takes a holistic perspective that focuses on the interrelationships among advertising, public relations, sales promotion, and personal selling.
Prereq.: sophomore standing; 2.5 GPA.

ADV 3712 Creative Strategies in IMC 3 s.h.
The creative process is related to the different message and graphic needs required in advertising, public relations, and sales promotion. Examines the synergistic possibilities of the separate efforts focused on the same creative strategy within an integrated marketing communications (IMC) campaign.
Prereq.: ADV 3711 and GPA of 2.5.

ADV 3717 Media Planning and Buying 3 s.h.
Planning, executing, and controlling of media buys. Techniques of allocation of budget among print and electronic media explored on national, regional, and local levels familiarizing the student with syndicated media resources.
Prereq.: ADV 3711 and GPA of 2.5.

ADV 3720 Introduction to Adobe Creative Cloud 3 s.h.
The Adobe Creative Cloud is a suite of programs to aid in the development and execution of graphical assets used for marketing, advertising, and branding. This course will introduce the student to the inner working of Adobe Creative Cloud programs and how they relate to one another as well as the proper usage of the programs. Through practical exercises, students will become fluent in industry standard software for line art, logos, vector graphics, and page layout for both print and web as well as tricks and time efficient techniques to keep work clean and professional.
Prereq.: Sophomore standing; 2.5 GPA.

ADV 4850 Advertising Internship 3 s.h.
Through employment with participating business organizations the student will receive professional advertising experience. Required paper on the relationship between advertising theory and practice.
Prereq.: MKTG 3703, 2.5 GPA.

ADV 4855 IMC Campaigns 3 s.h.
Capstone course in the integrated marketing communications curriculum. By employing the fundamental theories and practices garnered from previous integrated marketing communications courses for a specific IMC problem, the focus is the development of an integrated marketing communications campaign.
Prereq.: ADV 3711, ADV 3712, ADV 3717 and GPA of 2.5.

ADV 4899 Independent Study 3 s.h.
This course will allow students to develop a special topic of interest under the direct supervision of a marketing faculty member. The objective of this course is to provide the student with a strong understanding of a specific area of advertising.
Prereq.: ADV 3711; 2.5 GPA.

Entrepreneurship

ENT 3700 Entrepreneurship New Venture Creation 3 s.h.
An examination of the entrepreneurial process from opportunity recognition and assessment through the launch of the new firm. Emphasis placed on exploring creativity and innovation. Students will develop a feasible business idea, present the idea as an elevator pitch, and write a business proposal.
Prereq.: BUS 1500; sophomore standing; GPA 2.5.
MGT 2604 Legal Environment of Business 1 3 s.h.
Various sources of laws, basic legal reasoning and application. Emphasis on basic legal concepts of contracts, labor, tax, antitrust and business organizations, and their relationship to business and society.

MGT 3705 Fundamentals of Occupational Safety 3 s.h.
Overview of the broad concepts of occupational safety and health that provide a proper foundation for understanding the basic principles of workplace safety and health programs. Analysis of the regulatory environment including OSHA and Workers' Compensation; the development of safety management programs; the evaluation of workplace hazards; and discussion of the economic, political, and societal implications involving workplace safety and health.

MGT 3714 Legal Environment of Business 2 3 s.h.
In-depth analysis of commercial law areas covered on the CPA exam, with emphasis on sales, secured transactions, real and personal property, insurance, bankruptcy, and commercial paper.

MGT 3715 Employee Relations and Workplace Ethics 3 s.h.
Examines the current legal and social issues that affect employee relations. This course explores ways to effectively manage the workforce, while practicing ethically responsible behaviors. A survey of laws and regulations that affect the workplace and business negotiations are examined. Prereq.: MGT 2604, junior standing and 2.5 overall gpa.

MGT 3725 Fundamentals of Management 3 s.h.
Emphasizes the basic principles of management rather than those involved in business organization. The nature of managerial action within an organization, formal and informal structure, process of making decisions, and interrelated activities in management.

MGT 3750 Managing Individuals in Organizations 3 s.h.
Study of the contributions of the fields of organizational behavior and human resources as they apply to organizational functionality. Topics include individual and group decision-making, motivation, perceptions, and attitudes as they impact human resource processes, including job design, selection, organizational development, total rewards, employee relations, and workplace health, safety, and security.

MGT 3755 Managing Workplace Diversity 3 s.h.
Current topics in diversity: national and international demographics of the changing face of the work force; processes that create diversity including the organization of work; managing differences in work settings; management responses to diversity; and connections to larger institutional dynamics.

MGT 3761 Management Information Systems 3 s.h.
Study of information systems and their interaction with individuals and organizations, providing a basic understanding of hardware, software, and computer technology used in information systems.

ENT 3700 (C) or ENST 2600 or CJFS 1500 or BUS 1500 or consent of instructor and 2.5 overall gpa.

MGT 3771 Social Media and E-Commerce 3 s.h.
Technologies available to organizations to reach customers, sell products, and create business values that continue to change and emerge. The course provides students with an understanding of social media and e-commerce technologies from a business/managerial perspective. Underlying issues surrounding the technologies, their development, and utilization of web-based initiatives are studied.

MGT 3789 Operations Management 3 s.h.
Study of current operations management theories and practices with emphasis on direction, planning, and control of production systems. Includes detailed analysis in such areas as materials management, work measurement, quality control, scheduling, maintenance, and forecasting.

MGT 4801 Leadership in Business and Society 3 s.h.
Leadership accounts for a significant part of the performance in business, non-profit organizations and government agencies. This course provides a broad understanding of leadership as phenomenon and its impact on the behavior of individuals in organizations and firm performance.

MGT 4819 Selection, Training, and Development 4 s.h.
Intensive analysis of programs for personnel acquisition, the training and development of employees. Includes the human resources planning process. Examination of federal and other employment legislation where applicable.

MGT 4820 Supply Chain Management 3 s.h.
A comprehensive description of supply chain management practices and principles to achieve a competitive advantage in a global society and integrating these principles as a core competency in enterprise strategy. Topics include logistics, technology (information networks, ERP, SAP, operations (inventory management, transportation, warehousing, and material handling) and network designs.

MGT 4825 Information Systems 3 s.h.
Practical application of accounting and finance concepts in small/new businesses. Emphasis on raising capital, understanding financial statements, implementing small business accounting software, and forecasting revenue, expenses, and cash flow.

Prereq.: ENT 3700 or FIN 3720; GPA 2.5.

ENT 4800 Entrepreneurship-Business Plan Development 3 s.h.
An in-depth study of the aspects of a successful business plan. An individual business plan will be developed by students based on the analysis of a viable business concept. Junior standing.

Prereq.: ENT 3700 (C), GPA 2.5.

ENT 4850 Entrepreneurship Internship 3 s.h.
The student is given the opportunity to relate theory to practice in an on-site field experience in a new venture or local small business. Student works 12-15 hours per week under direct supervision of company management and direct guidance of faculty advisor. A weekly journal and final report are required.

Prereq.: ENT 3700; ENT 3750; ENT 4800; GPA 2.5; Approval of Director.

MGT 3700, MGT 3725, MGT 3750, and 2.5 overall gpa.

MGT 3725 and MGT 3750 and 2.5 overall gpa.

MGT 3750 and 2.5 overall gpa.
MGT 4821 Business Process Integration 3 s.h.
This course examines the forces driving enterprise integration as well as the management decisions associated with the design and implementation of enterprise systems. Students successfully completing this course will have thorough understanding of enterprise integration as well as practical experience of configuring and using SAP.
Prereq.: MGT 3761 or ACCT 3709 and 2.5 GPA.

MGT 4844 Strategic Human Resource Management 3 s.h.
Capstone course of the human resource (HR) major and should be taken in students' last semester. Purpose is to integrate knowledge within HR and across disciplines in developing and implementing HR strategy. Special focus will be given to developing the proficiencies necessary to serve as an HR consultant, especially in quantifying the impact of HR practices. Must take concurrently with MGT 4845.
Prereq.: MGT 4810 or MGT 4819 or consent of instructor and 2.5 overall gpa.

MGT 4845 Projects in Human Resource Management 1 s.h.
Emphasizes experiential, practical application of knowledge to real-life human resource challenges.
Prereq.: MGT 4810 or MGT 4819 or consent of instructor and 2.5 overall gpa.
Coreq.: MGT 4844.

MGT 4850 Strategic Management and Leadership 3 s.h.
Analysis of problems and issues faced by organizations operating in today's dynamic environment interspersed with multiple stakeholders. Students integrate concepts and techniques learned from a range of disciplines and apply them to all levels of firms functioning in a wide variety of industries.
Prereq.: MGT 3725, MKTG 3703, FIN 3720 and 2.5 overall gpa.
Gen Ed: Capstone.

MGT 4880 Special Topics in Management 1-4 s.h.
Subject matter, credit hours, and specific prerequisites to be announced in advance of each offering.
Prereq.: Senior standing in MGT or permission of instructor.

MKTG 3703 Marketing Concepts and Practice 3 s.h.
The activities involved in marketing products, services, and ideas examined within a framework of customer management. Topics include global marketing environment, market analysis and segmentation, consumer behavior, product development and management, pricing, promotion, and distribution. Marketing is examined from its role as a central function of business and non-profit organizations, and from its dominant role in a market economy.
Prereq.: 'C' or better in BUS 1500 and 2.5 GPA and junior standing.

MKTG 3709 Retail Marketing 3 s.h.
Retailing is the largest industry and the dominant employer in the U.S. economy. The industry is explored, with particular emphasis on understanding the activities of retailers, both large and small. Topics include shopper behavior, store location, store layout, product presentation, and customer service. The criteria for success in retailing, the impact of technology on retailing, and the retail process examined within the larger domain of marketing. Beneficial to all marketing and business majors, as well as others engaged in shopping activities.
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 3720 Business to Business Marketing 3 s.h.
Characteristics of Manufacturers' goods, channels of distribution, functions of intermediates, distribution costs, marketing research, government control, and legal limitations. Product policies, service policies, packaging policies, price policies. Industrial advertising organization, planning and budgeting, uses of advertising agencies and national advertising media, sales manuals, dealer helps.
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 3726 Consumer Behavior 3 s.h.
Individual and group behavior as related to marketing consumer behavior, considered from both the standpoint of the marketing manager and from that of the individual as a consumer. The behavioral sciences serve as a background to provide standards for the social and human evaluation of current marketing activities. Topics include the buyer as problem solver, buying decision processes and models, measurement of promotional effectiveness, and life style analysis.
Prereq.: GPA of 2.5.
MKTG 3740  Professional Selling  3 s.h.  
Personal selling and sales management examined within the marketing environment. Emphasis on marketing relationships, buyer motivation and behavior, selling strategy and sales management techniques. 2.5 GPA.  
Prereq.: BUS 1500 and sophomore standing.

MKTG 3742  Organizational Purchasing  3 s.h.  
Examination of procurement and purchasing activities within the organization with a concentration on the multiple levels of supplier and customer relationships. Topics include current trends in procurement and sourcing, purchasing policy and procedures, supplier evaluation and selection, sourcing processes, and contract management.  
Prereq.: MKTG 3703; 2.5 GPA.

MKTG 3745  Sales and Account Management  3 s.h.  
The course provides an overview of sales and account management. Concepts covered include strategic planning, sales leadership, analyzing customer-client-buyer markets, and designing and developing a sales force.  
Prereq.: MKTG 3703; MKTG 3740 (may be taken concurrently) and overall GPA of 2.5.

MKTG 3747  Negotiations Concepts and Strategies  3 s.h.  
The purpose of this course is to understand the theory and processes of negotiation so that the student can successfully negotiate in a variety of professional settings.  
Prereq.: MKTG 3703 and overall GPA 2.5.

MKTG 3749  Introduction to Sports Marketing  3 s.h.  
The field of Sports Marketing has emerged as a notable sector in commerce over the past three decades. This course will explore strategies for marketing through sports which include conventional marketing approaches as well as innovative sponsorship strategies. The course will also examine the more specialized aspects of sports marketing which involve active measures that are designed to influence consumer preferences for a variety of sports products and service - the marketing of sports.  
Prereq.: MKTG 3703.

MKTG 3750  Product and Brand Management  3 s.h.  
New product development and brand creation process from idea generation to launch; diffusion of innovation and sales forecast of new product, market entry strategy, branding of new product, business plan for new product.  
Prereq.: MKTG 3703 and 2.5 GPA.

MKTG 4811  Interactive Marketing  3 s.h.  
In-depth investigation of interactive marketing including direct response marketing and other technology-based forms of business-customer interaction including measuring the effectiveness and the integration of interactive marketing activities into the overall marketing strategy.  
Prereq.: MKTG 3703; GPA of 2.5.

MKTG 4815  Marketing Research and Analytics  3 s.h.  
Introduction to the major areas of marketing research. Problem definition, research design, gathering information and analysis to assist marketing management with the decision making process. Emphasis will be placed on using data and information in an applied context.  
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 4825  Marketing Management  3 s.h.  
Comprehensive study of the management functions in marketing including organization, planning, research, merchandising, sales, advertising and promotion, marketing channels, and control related to corporate policies and objectives. Management practices covering recruiting, selection, training, equipping, compensating, and supervising.  
Prereq.: MKTG 3703, MKTG 3726 and GPA of 2.5; May be taken concurrently with MKTG 4815.

MKTG 4842  Special Topics in Marketing  1-3 s.h.  
Topics vary each semester. Subject matter, number of credits, and prerequisites announced in advance of each topic. No more than one Special Topic per semester is permitted. May be taken twice with change of topic.  
Prereq.: Permission of Chairperson; 2.5 GPA; junior standing.

MKTG 4842R  Special Topics in Marketing Procurement  1-3 s.h.  
Topics vary each semester. Subject matter, number of credits, and prerequisites announced in advance of each topic. No more than one Special Topic per semester is permitted. May be taken twice with change of topic.  
Prereq.: Permission of Chairperson; 2.5 GPA; junior standing.

MKTG 4845  International Marketing  3 s.h.  
Development of United States trade, foreign trade promotion, organization, export and import procedures and practices. Presented from the viewpoint of the international marketing manager who must recognize differences between markets in various countries as influenced by their particular cultural and economic environments.  
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 4846  Marketing Channels and Logistics  3 s.h.  
Consideration of the problems likely to arise in the planning for and movement of goods through channels of distribution from producer to end-user. Elements of the logistical system, including transportation modes, plant and warehouse location, and inventory size determinations. Behavioral and functional relationships with and between channel members in a supply chain.  
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 4849  Export Strategy  3 s.h.  
The student will learn how to manage and operate export-based business. The focus will be on identifying local products, local companies, and an international opportunity to export by researching a specific market and working directly with a local firm.  
Prereq.: MKTG 3703, GPA 2.5.

MKTG 4850  Marketing Internship  3 s.h.  
Through employment with participating business organizations the student receives professional marketing experience. Candidates work for the entire semester at a local business organization under the direct guidance of a faculty advisor. Required paper at the end of the course on the relationship of marketing theory and practice.  
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 4851  Services Marketing  3 s.h.  
Cross-functional approach to the marketing of customer services in profit and non-profit organizations, including domestic and international opportunity analysis, customer analysis, financial analysis, strategy formulation, process and systems management, and quality improvement.  
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 4852  Advanced Marketing Internship  3 s.h.  
This course is an extension of MKTG 4850 Marketing Internship. It is designed to allow students to continue a current internship at a more advanced level or to engage in additional internship experience.  
Prereq.: MKTG 4850; 2.50 GPA.

MKTG 4853  Sales Internship  3 s.h.  
Through employment with a participating business organization the student receives professional sales experience. Candidates work for the entire semester at an approved business organization.  
Prereq.: MKTG 3703 and GPA of 2.5.

MKTG 4870  Small Business/Entrepreneurship  3 s.h.  
Study of the small business environment and the problems in starting a business. How small businesses apply the managerial functions in using their resources.  
Prereq.: MKTG 3703.  
Cross-listed: MGT 4870.

MKTG 4871  Small Business Enterprise  3 s.h.  
Students work with actual problems faced by small businesses under faculty supervision. Problems are defined, analyzed, researched. Recommendations are developed and presented to clients for evaluation.  
Prereq.: MKTG 3703.  
Cross-listed: MGT 4871.
MKTG 4899  Marketing Independent Study  1-3 s.h.
This course will allow students to develop a topic of interest under the direct supervision of a marketing faculty member.
Prereq.: MKTG 3703 and 2.5 overall GPA.

Bachelor of Science in Business Administration in Advertising and Public Relations

Advertising is the practice of producing information to promote the sale of products or services. Professionals in advertising create and communicate advertising strategies, develop advertising campaigns, and promote and sell products, services and brands.

All business majors at Youngstown State University have the opportunity to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship increases a student's job opportunities upon graduation.

Advertising majors at Youngstown State University take courses in marketing communication, integrated marketing campaigns, media planning and buying, consumer behavior, and marketing research.

Career opportunities
Advertising professionals are involved in creating campaigns to convince consumers to purchase or use certain products. Campaigns are launched through a variety of menus including television, billboards, and social media. The advertisements are created to enhance the public's perception and to get people excited about a product.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship increases a student’s job opportunities upon graduation.

Student experiences
Advertising majors at Youngstown State University have the opportunity to build their leadership skills through various student organizations (http://www.ysu.edu/academics/williamson-college-business-administration/student-organizations-and-experiences/).

<table>
<thead>
<tr>
<th>COURSE</th>
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<tr>
<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS SEMINAR</strong></td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td><strong>GENERAL EDUCATION</strong></td>
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<td>Core Competencies</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Mathematics requirement</td>
<td>Met through MATH 1552 (see Business Tool)</td>
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<tr>
<td>Knowledge Domains</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>PHIL 2628</td>
<td>Business Ethics (required for major)</td>
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<tr>
<td>Arts and Humanities elective</td>
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<td>3</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (7 s.h.)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
<td>Met through ECON 2610 and ECON 2630 (see Business Tool)</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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<td><strong>BUSINESS TOOL COURSES</strong></td>
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<tr>
<td>Business tool courses must be completed with the grade of a &quot;C&quot; or higher and CANNOT be taken credit/no-credit.</td>
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<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
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<tr>
<td>BUS 2600</td>
<td>Business Applications of Microsoft Excel</td>
<td>3</td>
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<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management</td>
<td>4</td>
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<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
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<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
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<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business</td>
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<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
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<td>ACCT 2603</td>
<td>Managerial Accounting</td>
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<td>ENGL 3742</td>
<td>Business Writing</td>
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<tr>
<td>ENGL 3788</td>
<td>Statistics for Business and Economics</td>
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</table>

**BUSINESS CORE REQUIRED COURSES**
To enroll in upper level business courses student must have successfully completed ENGL 1549 or 1550, ENGL 1551, PHIL 2628, CMST 1545, all business tool courses and have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>BUS 3715</td>
<td>Principles of International Business</td>
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<td>BUS 3700</td>
<td>Business Analytics</td>
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<td>FIN 3720</td>
<td>Business Finance</td>
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<td>MKTG 3702</td>
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<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
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<td>MGT 3725</td>
<td>Fundamentals of Management</td>
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<tr>
<td>MGT 3761</td>
<td>Management Information Systems</td>
<td>3</td>
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<tr>
<td>MGT 3789</td>
<td>Operations Management</td>
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<tr>
<td>MKTG 4850</td>
<td>Strategic Management and Leadership</td>
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<td><strong>ADVERTISING/PUBLIC RELATIONS REQUIRED COURSES</strong></td>
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<tr>
<td>ADV 3710</td>
<td>Basic Public Relations</td>
<td>3</td>
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<tr>
<td>ADV 3711</td>
<td>Marketing Communications</td>
<td>3</td>
</tr>
<tr>
<td>ADV 3712</td>
<td>Creative Strategies in IMC</td>
<td>3</td>
</tr>
<tr>
<td>ADV 3717</td>
<td>Media Planning and Buying</td>
<td>3</td>
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<tr>
<td>ADV 4855</td>
<td>IMC Campaigns</td>
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<tr>
<td>MKTG 3726</td>
<td>Consumer Behavior</td>
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<td>MKTG 4815</td>
<td>Marketing Research and Analytics</td>
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<td><strong>ADVERTISING/PUBLIC RELATIONS COURSES</strong></td>
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<tr>
<td>Select 6 SH of upper level MKTG or ADV courses.</td>
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<td><strong>UPPER LEVEL BUSINESS COURSES</strong></td>
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<tr>
<td>Select 3 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN, MKTG, MGT)</td>
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<td><strong>NON-BUSINESS ELECTIVE</strong></td>
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Total Semester Hours 120-122

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>or Strong Start Success Seminar</td>
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</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<tr>
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<td>or Writing 1 with Support</td>
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<tr>
<td>BUS 1500</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Semester Hours</td>
<td>14-16</td>
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</table>

| Spring | | |
| ENGL 1551 | Writing 2 | 3 |
| PHIL 2628 | Business Ethics | 3 |
| ECON 2610 | Principles 1: Microeconomics | 3 |
| BUS 2600 | Business Applications of Microsoft Excel | 3 |
| GE: Arts & Humanities | | 3 |
| Semester Hours | 15 |
### Year 2

**Fall**
- ACCT 2602 Financial Accounting 3
- ECON 2630 Principles 2: Macroeconomics 3
- ENGL 3742 Legal Environment of Business 1 3
- MGT 2604 Business Writing 3
- GE: Lab Science 4

**Spring**
- ACCT 2603 Managerial Accounting 3
- MKTG 3702 Business Professionalism 1
- ECON 3788 Basic Public Relations 3
- GE: Natural Science 3

**Semester Hours** 16

### Year 3

**Fall**
- MKTG 3703 Marketing Concepts and Practice 3
- MGT 3725 Fundamentals of Management 3
- ADV 3711 Marketing Communications 3
- BUS 3700 Business Ethics 3
- GE: Social and Personal Awareness 3

**Spring**
- MKTG 3726 Consumer Behavior 3
- MGT 3761 Management Information Systems 3
- FIN 3720 Business Finance 3
- BUS 3715 Principles of International Business 3
- Advertising/Marketing Course Internship Recommended 3

**Semester Hours** 15

### Year 4

**Fall**
- ADV 3712 Creative Strategies in IMC 3
- ADV 3717 Media Planning and Buying 3
- MGT 3789 Operations Management 3
- Upper Level Business Course 3
- Non Business Elective 2

**Spring**
- ADV 4855 IMC Campaigns 3
- MGT 4850 Strategic Management and Leadership 3
- MKTG 4815 Marketing Research and Analytics 3
- Upper Level Advertising/Marketing Course 3
- Non-Business Courses 3

**Semester Hours** 14

**Semester Hours** 15

**Total Semester Hours** 120-122

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ENGL 1550, ENGL 1551, Business Tool and upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

To enroll in upper level Business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

### Learning Outcomes
- Students will demonstrate knowledge and understanding of marketing communication theories and concepts.
- Students will demonstrate effective marketing communication skills.
- Students will develop skills to recognize, analyze and solve marketing communication problems through critical thinking.
- Students will be able to apply learned knowledge and skills to develop a comprehensive integrated marketing communication campaign.

### Bachelor of Science in Business Administration in Business Administration

**Overview**

Business Administration includes all areas of business and provides students with broad exposure to accounting, finance, management, and marketing. All successful business people must have an understanding of organizations and possess strong skills in the areas of communication, leadership, teamwork, communication, and critical thinking.

Business Administration majors at Youngstown State University don’t specialize in one area of business study, but rather take a broad range of courses in management, accountancy, finance, and marketing.

**Career Outlook**

Business Administration positions are projected to grow up to 14% by 2026, depending on the industry. Demand for the services of Business Administration graduates will be based on the need for organizations to improve efficiencies and control costs.

Common job titles include:
- Purchasing Manager
- Management Analyst
- Business Development Associate
- Business Consultant
- Event Planner
- Business owner
- Manager

**Student Experiences**

All students in the WCBA are encouraged to complete at least one credit bearing internship and to be involved with one of the college’s many student organizations. Being involved outside the classroom is an important way to develop leadership skills, learn about various careers, and make professional connections.

**Course Title**

**First Year Requirement – Student Success Seminar**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>Intro to Honors</td>
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**General Education**

<table>
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<tr>
<th>COURSE</th>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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<td>Writing 2</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
<td>SH of Arts &amp; Humanities met through PHIL 2628</td>
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<td>PHIL 2628</td>
<td>Business Ethics</td>
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Natural Sciences (2 courses, 1 with lab) (7 s.h.) 7
Social and Personal Awareness (6 s.h.) 6
Social Science (6 s.h.) Met through ECON 2610 and ECON 2630 - See Business Tool Courses

BUSINESS TOOL COURSES

Business Tool courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

BUS 1500 Exploring Business 3
BUS 2600 Business Applications of Microsoft Excel 3
MATH 1552 Applied Mathematics for Management 4
ECON 2610 Principles 1: Microeconomics 3
ECON 2630 Principles 2: Macroeconomics 3
MGT 2604 Legal Environment of Business 1 3
ACCT 2602 Financial Accounting 3
ACCT 2603 Managerial Accounting 3
ENGL 3742 Business Writing 3
ECON 3788 Statistics for Business and Economics 1 3

BUSINESS CORE REQUIREMENTS

To enroll in upper level business courses students must have successfully completed ENGL 1549 or 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Upper Level Business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

BUS 3700 Business Analytics 3
BUS 3715 Principles of International Business 3
FIN 3720 Business Finance 3
MKTG 3702 Business Professionalism 3
MKTG 3703 Marketing Concepts and Practice 3
MGT 3725 Fundamentals of Management 3
MGT 3761 Management Information Systems 3
MGT 3789 Operations Management 3
MGT 4850 Strategic Management and Leadership 3

BUSINESS ADMINISTRATION MAJOR REQUIREMENTS

MGT 3750 Managing Individuals in Organizations 3
Upper level ACCT or FIN Course 3
Upper level MGT course 3
Upper Level MKTG or ADV course 3
UPPER LEVEL BUSINESS SERIES 6
Select 6 SH from the same series (see below)
UPPER LEVEL BUSINESS COURSES 9
Select 9 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG) 9
NON-BUSINESS COURSES 8

Total Semester Hours 120-122

Upper Level Business Series (students must select 2 course (6 SH) from one area.

COURSE TITLE S.H.
Enterprise Resource Planning
MGT 4820 Supply Chain Management 3
MGT 4821 Business Process Integration 3
Management Information Systems
MGT 3771 Social Media and E-Commerce 3
MGT 5835 Systems Analysis and Design 3
MGT 5865 Database Management Systems 3
Human Resource Management
MGT 3715 Employee Relations 3
MGT 3705 Fundamentals of Occupational Safety 3
MGT 3755 Managing Workplace Diversity 3
MGT 4810 Compensation and Performance Appraisal 4
MGT 4819 Selection, Training, and Development 4

International Business
BUS 4860 International Business Internship 3
BUS 4875 International Business Field Study Tour 1-3
FIN 4839 International Accounting and Finance 3
MKTG 4845 International Marketing 3
MKTG 4849 Export Strategy 3
MKTG 4851 Services Marketing 3
Entrepreneurship
ENT 3700 Entrepreneurship New Venture Creation 3
ENT 3750 Entrepreneurship-Small Business Financial Management 3
ENT 4800 Entrepreneurship-Business Plan Development 3
(Nonprofit Leadership)

Nonprofit Leadership
BUS 3720 Nonprofit Leadership 3
BUS 3780 Financial Management and Fundraising for Nonprofit Organizations 3
BUS 4840 Nonprofit Leadership Internship 3
Leadership
MKTG 4801 Leadership in Business and Society 3
MGT 3715 Employee Relations 3
MGT 3755 Managing Workplace Diversity 3

Year 1
Fall
YSU 1500 or SS 1500 or HONR 1500 Success Seminar or Strong Start Success Seminar or Intro to Honors 1-2
BUS 1500 Exploring Business 3
ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
MATH 1552 Applied Mathematics for Management 4
CMST 1545 Communication Foundations 1 3

Semester Hours 14-16
Spring
ENGL 1551 Writing 2 3
PHIL 2628 Business Ethics 3
ECON 2610 Principles 1: Microeconomics 3
BUS 2600 Business Applications of Microsoft Excel 3
GE: Arts & Humanities 3

Semester Hours 15

Year 2
Fall
ACCT 2602 Financial Accounting 3
MGT 2604 Legal Environment of Business 1 3
ENGL 3742 Business Writing 3
ECON 2630 Principles 2: Macroeconomics 3
GE: Social & Personal Awareness 3

Semester Hours 15
Spring
ACCT 2603 Managerial Accounting 3
MKTG 3702 Business Professionalism 1
ECON 3788 Statistics for Business and Economics 1 3
GE: Natural Science 3
Non-Business Elective 3
GE: SPA 3

Semester Hours 16

Year 3
Fall
MKTG 3703 Marketing Concepts and Practice 3
MGT 3725 Fundamentals of Management 3
BUS 3700 Business Analytics 3
MGT 3750 Managing Individuals in Organizations 3
GE: Lab Science 4

Semester Hours 16

Spring
MGT 3761 Management Information Systems 3
FIN 3720 Business Finance 3
BUS 3715 Principles of International Business 3
MKTG upper level course Intership Recommended 3

Semester Hours 15

Year 4
Fall
MGT 3789 Operations Management 3
FIN/ACCT upper level course 3
BA series upper level course 3
Business upper level course 3
Non-Business Course 2

Semester Hours 14

Spring
MGT 4850 Strategic Management and Leadership 3
MGT Upper Level Course 3
Business Upper Level Course 3
BA series upper level course 3
Non Business Courses 3

Semester Hours 15

Total Semester Hours 120-122

ENGL 1550, ENGL 1551, Business Tool and upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG) must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

To enroll in upper level business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Learning Outcomes
The student learning outcomes for majors within the Management Department are as follows:

- **Operations Management**—Demonstrate knowledge in role of operations management in business strategy of the firm; interdependence with other key functional areas; designing and improving processes; designing and operating value chains
- **International Business**—Demonstrate knowledge in cross-country variations in business environments that present both opportunities and challenges in operating globally; strategies and management systems to seize the opportunities and face the challenges in operating globally
- **Information Systems**—Demonstrate knowledge in role of information systems in the modern enterprise; emerging technologies (such as ERP, CRM etc.) and their potential impact on your business; managing IT resources effectively and efficiently to achieve business goals
- **Business Policy and Strategy**—Demonstrate knowledge in applying basic strategy frameworks, concepts, and definitions; cross-functional analysis, decision-making, and strategic integration; analysis of complex business/industry scenarios and development of action plans
- **Management/Organizational Behavior**—Demonstrate knowledge in management as a social process; managerial functions (planning, organizing, leading, motivating etc.) and skills (technical, communications, etc.)

Bachelor of Science in Business Administration in Human Resource Management

Human Resource Management (HRM) professionals provide leadership for ensuring that organizations recruit, retain and develop the best employees. People are an organization’s most valuable asset and HR professionals play a key role ensuring organizations have the best people. HRM will be especially attractive to those students who like working with a broad range of people and have excellent communication and negotiating skills. HR professionals can be specialists who work in one area of HR or generalists who work in multiple areas. Key HR areas include recruitment and selection, training and development, compensation and benefits, and employee relations.

The Society for Human Resource Management (SHRM) is the world’s largest membership organization for HR professionals. The HR curriculum at YSU has been reviewed by SHRM and has been approved as aligned with SHRM’s HR Curriculum Guidelines.

**CAREER OPPORTUNITIES**
Human Resource managers are employed in every industry. The field of Human Resources offers an array of potential career options including recruiters, placement managers, trainers, compensation analysts, compensation and benefits manager, employee relations managers, and safety coordinators. Executive level positions include Vice President of HR, Chief HR Officer, and Executive Vice President.

**STUDENT EXPERIENCES**
Human Resource Management majors at Youngstown State University have the opportunity to build their leadership skills through various WCBA student organizations (http://www.ysu.edu/academics/williamson-college-business-administration/student-organizations-and-experiences/). HR majors should plan to join the student chapter of the Society for Human Resource Management. Since the HR curriculum has been approved by SHRM, HR majors who are in their senior year and who meet the eligibility requirements may apply to take the SHRM Certified Professional (SHRM-CP) exam.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship increases a student’s job opportunities upon graduation.

**COURSE** | **TITLE** | **S.H.**
---|---|---
YSU 1500 or SS 1500 or HONR 1500 | Success Seminar or Strong Start Success Seminar or Intro to Honors | 1-2

**GENERAL EDUCATION**

| COURSE | TITLE | S.H. |
---|---|---|
ENGL 1550 | Writing 1 | 3-4 |
ENGL 1549 | Writing 1 with Support | 3 |
ENGL 1551 | Writing 2 | 3 |
CMST 1545 | Communication Foundations | 3 |
### BSBA in Human Resource Management

#### Suggested Four-Year Plan

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<td>Compensation and Performance Appraisal (spring term only)</td>
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### Notes:
- Mathematics requirement: Met through MATH 1552 (see Business Tool)
- Arts and Humanities (6 s.h.)
- PHIL 2628 Business Ethics (required for major) 3
- Arts and Humanities elective 3
- Natural Sciences (2 courses, 1 with lab) (7 s.h.) 7
- Social Science (6 s.h.) Met through ECON 2610 and ECON 2630 (see Business Tool)
- Social and Personal Awareness (6 s.h.) 6

#### BUSINESS TOOL COURSES

Business tool courses must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

- BUS 1500 Exploring Business 3
- BUS 2600 Business Applications of Microsoft Excel 3
- MATH 1552 Applied Mathematics for Management 4
- ECON 2610 Principles 1: Microeconomics 3
- ECON 2630 Principles 2: Macroeconomics 3
- MGT 2604 Legal Environment of Business I 3
- ACCT 2602 Financial Accounting 3
- ACCT 2603 Managerial Accounting 3
- ENGL 3742 Business Writing 3
- ECON 3788 Statistics for Business and Economics I 3

#### BUSINESS CORE COURSES

To enroll in upper level business courses students must have successfully completed ENGL 1549 or 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

- BUS 3700 Business Analytics 3
- BUS 3715 Principles of International Business 3
- FIN 3720 Business Finance 3
- MKTG 3702 Business Professionalism 1
- MKTG 3703 Marketing Concepts and Practice 3
- MGT 3725 Fundamentals of Management 3
- MGT 3761 Management Information Systems 3
- MGT 3789 Operations Management 3
- MGT 4850 Strategic Management and Leadership 3

#### HUMAN RESOURCE MANAGEMENT REQUIRED COURSES

- MGT 3715 Employee Relations 3
- MGT 3750 Managing Individuals in Organizations 3
- MGT 4810 Compensation and Performance Appraisal spring term only 4
- MGT 4819 Selection, Training, and Development fall term only 4
- MGT 4844 & MGT 4845 Strategic Human Resource Management and Projects in Human Resource Management spring term only 4

#### HUMAN RESOURCE UPPER LEVEL COURSE

Select one of the following: MGT 3705, MGT 3755, MGT 4801, MGT 4895 or MGT 4899 Internship Recommended

#### MANAGEMENT UPPER LEVEL COURSES

Select 6 SH of upper level MGT courses.

#### BUSINESS UPPER LEVEL COURSES

Select 3 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG).

#### NON-BUSINESS COURSES

Total Semester Hours 120-122
Common job titles include:

- Operations Manager
- Business Analyst
- Project Manager
- Nonprofit manager
- Team leader

STUDENT EXPERIENCES

Management majors at Youngstown State University have the opportunity to build their technical and leadership skills through various WCBA student organizations. Specific organizations related to Management include ENACTUS, Student Nonprofit Leadership Organization, Students in Information and Supply Chain Management, and the Society for Human Resource Management.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship markedly improves a student's job prospects upon graduation.

For more information, visit the Williamson College of Business Administration (https://ysu.edu/academics/williamson-college-business-administration/).

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<td>YSU 1500</td>
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<td>or ENGL 1549</td>
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<td>or HONR 1500</td>
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GENERAL EDUCATION

- ENGL 1551 | Writing 1 | 3-4 |
- CMST 1545 | Communication Foundations | 3 |

Mathematics Requirement (Met through MATH 1552 (see Business Tool Courses))

- Arts & Humanities (6 SH)
- PHIL 2628 | Business Ethics | 3 |
- Arts & Humanities Elective | 3 |
- Natural Science | One Science Class must include a lab | 7 |
- Social Sciences (6 SH) | Met through ECON 2610 and ECON 2630 (see Business Tool courses) | 6 |

Social & Personal Awareness | 6 |

BUSINESS TOOL COURSE REQUIREMENTS

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<td>ECON 3788</td>
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BUSINESS CORE REQUIREMENTS

To enroll in upper level business courses students must have a minimum 2.5 overall GPA and successful completion of all business tool courses.

All Upper Level Business Classes must be complete with the grade of a "C" or higher and cannot be taken credit/no credit

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<tr>
<td>MKTG 3702</td>
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MANAGEMENT MAJOR COURSE REQUIREMENTS

9

MANAGEMENT TRACKS (9 SH)

Students will take 3 classes from one of the following tracks: Management Information Systems, Supply Chain Management or General Management.

Management Information Systems Track (9 SH)

MGT 3771 Social Media and E-Commerce
MGT 5835 Systems Analysis and Design
MGT 5865 Database Management Systems

Supply Chain Management Track (9 SH)

MGT 4820 Supply Chain Management
MGT 4822 Scheduling and Inventory Management
MGT 4882 Seminar in Logistics

General Management Track (9 SH)

MGT 3705 Fundamentals of Occupational Safety
MGT 3715 Employee Relations
MGT 3755 Managing Workplace Diversity
MGT 4810 Compensation and Performance Appraisal
MGT 4819 Selection, Training, and Development
MGT 4844 Strategic Human Resource Management 

Corequisite: MGT 4845

BUS 3720 Nonprofit Leadership
BUS 3780 Financial Management and Fundraising for Nonprofit Organizations
ENT 3700 Entrepreneurship New Venture Creation
ENT 3750 Entrepreneurship-Small Business Financial Management
ENT 4800 Entrepreneurship-Business Plan Development

NON-BUSINESS ELECTIVES

5

TOTAL SEMESTER HOURS

120-122

Year 1

Fall

YSU 1500 Success Seminar 1-2
or SS 1500 or Strong Start Success Seminar
or HONR 1500 or Intro to Honors
ENGL 1550 Writing 1 3-4
or ENGL 1549 or Writing 1 with Support
BUS 1500 Exploring Business 3
MATH 1552 Applied Mathematics for Management 4
CMST 1545 Communication Foundations 3

Semester Hours 14-16

Spring

ENGL 1551 Writing 2 3
ECON 2610 Principles 1: Microeconomics 3
PHIL 2628 Business Ethics 3
BUS 2600 Business Applications of Microsoft Excel 3

Year 2

Fall

ECON 2630 Principles 2: Macroeconomics 3
ACCT 2602 Financial Accounting 3
ENGL 3742 Business Writing 3
MGT 2604 Legal Environment of Business 1 3
GE: Arts & Humanities 3

Semester Hours 15

Spring

ACCT 2603 Managerial Accounting 3
ECON 3788 Statistics for Business and Economics 1 3
MGT 3702 Business Professionalism 3
GE: SPA 1
GE: Lab Science 4
Non-Business Elective 2

Semester Hours 16

Year 3

Fall

MGT 3750 Managing Individuals in Organizations 3
MKTG 3703 Marketing Concepts and Practice 3
BUS 3700 Business Analytics 3
MGT 3725 Fundamentals of Management 3
Upper Level Business Elective 3

Semester Hours 15

Spring

MGT 4801 Leadership in Business and Society 3
BUS 3715 Principles of International Business 3
FIN 3720 Business Finance 3
Upper Level Management Track Course 3
Upper Level Business Course Internship Recommended 3

Semester Hours 15

Year 4

Fall

MGT 4881 Project and Quality Management 3
MKTG 3761 Management Information Systems 3
MKTG 3789 Operations Management 3
Upper Level Business Elective 3
Non Business Elective 3

Semester Hours 15

Spring

MGT 4850 Strategic Management and Leadership 3
Upper Level Management Track Course 3
Upper Level Business Elective 3
Upper Level Management Track Course 3
Non Business Elective 3

Semester Hours 15

TOTAL SEMESTER HOURS

120-122

ENGL 1550, ENGL 1551, Business Tool and upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG) must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

To enroll in upper level Business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.
1. Develop communication skills to succeed in managerial and leadership roles;
2. Lead high-performance teams in an organizational setting;
3. Decision making under risk and uncertainty;
4. Address significant problems and opportunities in an organizational setting;
5. Motivate employees to excel in their jobs;
6. Leading organizational change.

**Bachelor of Science in Business Administration in Marketing Management Track**

The Marketing Management track of the Marketing major focuses on the strategic planning and assessment of marketing as well as management of marketing, sales, advertising, and public relations personnel in a business or other organization.

Marketing revolves around the product or service of the business, promotion of the product, price at which it is sold, and how it is distributed to the customer. Professionals in marketing create and communicate marketing strategies, develop marketing campaigns, and work with sales teams to sell products. The Marketing major offers two tracks for students to specialize in based upon their career goals.

**career opportunities**

Marketing can be defined as being the intermediary function between product development and sales. There are many avenues in the field of marketing including advertising, public relations, media planning, sales strategy and more. Marketing professionals create, manage and enhance good, services and brands. The Marketing Management major at YSU prepares students for leadership positions in the field.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship increases a student's job opportunities upon graduation. Students pursuing Marketing majors at Youngstown State University have the opportunity to

**student experiences**

Marketing majors at Youngstown State University have the opportunity to build their leadership skills through various student organizations and experiences. Marketing majors at YSU prepare students for leadership positions in the field. The Marketing Management major at YSU prepares students for leadership positions in the field.

120 Hours for Degree

**Year 1**

**Fall**

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**GENERAL EDUCATION**

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**BUSINESS TOOL COURSES**

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<td>3</td>
</tr>
<tr>
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</tr>
<tr>
<td>ECON 2610</td>
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<td>3</td>
</tr>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business 1</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3788</td>
<td>Statistics for Business and Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3742</td>
<td>Business Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

**BUSINESS CORE COURSES**

To enroll in upper level business courses students must have successfully completed ENGL 1549 or 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool course AND have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>BUS 3715</td>
<td>Principles of International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 3700</td>
<td>Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3720</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3702</td>
<td>Business Professionalism</td>
<td>1</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3761</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3789</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 4850</td>
<td>Strategic Management and Leadership</td>
<td>3</td>
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</table>

**MARKETING MAJOR REQUIREMENTS**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
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<tbody>
<tr>
<td>MKTG 3720</td>
<td>Business to Business Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3750</td>
<td>Product and Brand Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3726</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4815</td>
<td>Marketing Research and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 4825</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**MARKETING UPPER LEVEL COURSES**

Select 9 SH of upper level MKTG or ADV courses

**BUSINESS UPPER LEVEL COURSES**

Select 9 SH of upper level business courses (ADV, ACCT, ADV, BUS, ENT, MGT, MKTG)

**NON-BUSINESS ELECTIVES**

5

**Total Semester Hours**

120-122
Year 2

Fall
ACCT 2602  Financial Accounting  3
MGT 2604  Legal Environment of Business I  3
ENGL 3742  Business Writing  3
ECON 2630  Principles 2: Macroeconomics  3
GE: Lab Science  4

<table>
<thead>
<tr>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Spring
ACCT 2603  Managerial Accounting  3
MKTG 3702  Business Professionalism  1
ECON 3788  Statistics for Business and Economics I  3
GE: Natural Science  3
GE: Social & Personal Awareness  3
GE: Arts & Humanities  3

<table>
<thead>
<tr>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>16</td>
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</tbody>
</table>

Year 3

Fall
BUS 3715  Principles of International Business  3
MGT 3725  Fundamentals of Management  3
BUS 3700  Business Analytics  3
MKTG 3703  Marketing Concepts and Practice  3
MKTG 3726  Consumer Behavior  3

<table>
<thead>
<tr>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Spring
FIN 3720  Business Finance  3
MGT 3761  Management Information Systems  3
MKTG 3750 or MKTG 3720  Product and Brand Management or Business to Business Marketing  3
Upper Level Marketing Course 3-4  3
Upper Level Business Course  3

<table>
<thead>
<tr>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Year 4

Fall
MGT 3789  Operations Management  3
MKTG 4815  Marketing Research and Analytics  3
Upper Level Business Course  3
Upper Level Marketing/Advertising Course  3
Non-Business Elective  2

<table>
<thead>
<tr>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
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</tbody>
</table>

Spring
MGT 4850  Strategic Management and Leadership  3
MKTG 4825  Marketing Management  3
Upper Level Marketing/Advertising Course  3
Upper Level Business Course  3
Non-Business Elective  3

<table>
<thead>
<tr>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
</tr>
</tbody>
</table>

Total Semester Hours 120-122

To enroll in upper level business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Learning Outcomes

1. Students will demonstrate knowledge and understanding of the marketing mix.
2. Students will demonstrate effective business communication skills.
3. Students will be able to recognize, analyze, and solve marketing problems.

Bachelor of Science in Business Administration in Marketing: Sales Track

Marketing revolves around the product or service of the business, promotion of the product, price at which it is sold, and how it is distributed to the customer. Professionals in marketing create and communicate marketing strategies, develop marketing campaigns, and work with sales teams to sell products. The Marketing major offers two tracks for students to specialize in based upon their career goals.

The sales track in Marketing prepares students for a career in professional, business-to-business selling. Careers in sales are some of the highest paid and most rewarding for new business graduates.

career opportunities

Marketing Sales managers direct an organizations' sales of goods, products, and/or services. Sales jobs can be found in virtually every industry including wholesale and retail trade, manufacturing, and services industries. Employment of Sales Managers is expected to grow significantly within the next 10 years as new organizations develop and existing organizations expand.

All business majors are strongly encouraged to complete internships. Internships are career-related work experiences that enable students to apply their knowledge and skills in an organizational setting. In the WCBA, internships that are approved for academic credit must be paid. Completing a career-related internship increases a student's job opportunities upon graduation.

student experiences

Marketing majors at Youngstown State University have the opportunity to build their leadership skills through various student organizations. Marketing majors at Youngstown State University have the opportunity to build their leadership skills through various student organizations (http://www.ysu.edu/academics/williamson-college-business-administration/student-organizations-and-experiences/).

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
<td>1-2</td>
</tr>
<tr>
<td>or SS 1500 or HONR 1500</td>
<td>Intro to Honors</td>
<td></td>
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</tbody>
</table>

GENERAL EDUCATION

| ENGL 1550 | Writing 1 | 3-4 |
| or ENGL 1549 | Writing 1 with Support |
| or ENGL 1551 | Writing 2 |
| CMST 1545 | Communication Foundations | 3 |

Mathematics requirement Met through MATH 1552 (see Business Tool)

Arts and Humanities (6 s.h.)
PHIL 2628 Business Ethics (required for major) 3
or Business Ethics electives 3
Natural Sciences (2 courses, 1 with lab) (7 s.h.) 7
Social Science (6 s.h.) Met through ECON 2610 and ECON 2630 (see Business Tool)
Bachelor of Science in Business Administration in Marketing: Sales Track

### Social and Personal Awareness (6 s.h.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 2600</td>
<td>Business Applications of Microsoft Excel</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management</td>
<td>4</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business 1</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
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<tr>
<td>ENGL 3742</td>
<td>Business Writing</td>
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<tr>
<td>ECON 3788</td>
<td>Statistics for Business and Economics 1</td>
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### Year 1

#### Fall

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<tr>
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<th>Course Title</th>
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<tr>
<td>YSU 1500</td>
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<td>1-2</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1 or Writing 1 with Support</td>
<td>3</td>
</tr>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
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<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management</td>
<td>4</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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#### Spring

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<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
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<tr>
<td>PHIL 2628</td>
<td>Business Ethics</td>
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<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
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### Year 2

#### Fall

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<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
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<td>MGT 2604</td>
<td>Legal Environment of Business 1</td>
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</tr>
<tr>
<td>ENGL 3742</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630</td>
<td>Principles 2: Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GE: Lab Science</td>
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#### Spring

<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>ACCT 2603</td>
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<tr>
<td>MKTG 3702</td>
<td>Business Professionalism</td>
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<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3761</td>
<td>Management Information Systems</td>
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<td>MGT 3789</td>
<td>Operations Management</td>
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<td>MGT 4850</td>
<td>Strategic Management and Leadership</td>
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### Year 3

#### Fall

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<th>Course Title</th>
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<tr>
<td>BUS 3715</td>
<td>Principles of International Business</td>
<td>3</td>
</tr>
<tr>
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<td>Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3720</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3702</td>
<td>Business Professionalism</td>
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</tr>
<tr>
<td>MKTG 3740</td>
<td>Professional Selling</td>
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<tr>
<td>MKTG 3742</td>
<td>Organizational Purchasing</td>
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<tr>
<td>MKTG 3745</td>
<td>Sales and Account Management</td>
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<tr>
<td>MKTG 3747</td>
<td>Negotiations Concepts and Strategies</td>
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<tr>
<td>MKTG 4815</td>
<td>Marketing Research and Analytics</td>
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</tr>
<tr>
<td>MKTG 4825</td>
<td>Marketing Management</td>
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</tr>
<tr>
<td>BUS 2600</td>
<td>Business Applications of Microsoft Excel</td>
<td>3</td>
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<tr>
<td>GE: Arts &amp; Humanities</td>
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### Year 4

#### Fall

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<tr>
<td>MGT 3726</td>
<td>Consumer Behavior</td>
<td>3</td>
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<tr>
<td>MKTG 3761</td>
<td>Management Information Systems</td>
<td>3</td>
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<tr>
<td>FIN 3720</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3745</td>
<td>Sales and Account Management</td>
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</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
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#### Spring

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>MKTG 3726</td>
<td>Consumer Behavior</td>
<td>3</td>
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<tr>
<td>MKTG 3761</td>
<td>Management Information Systems</td>
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</tr>
<tr>
<td>FIN 3720</td>
<td>Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3745</td>
<td>Sales and Account Management</td>
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</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
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</tbody>
</table>

### Total Semester Hours

120-122
To enroll in upper level business courses students must have successfully complete ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Learning Outcomes

1. Students will demonstrate knowledge and understanding of the marketing mix.
2. Students will demonstrate effective business communication skills.
3. Students will be able to recognize, analyze, and solve marketing problems.

Certificate in Enterprise Resource Planning (ERP)

Contact: Dr. Bruce Keillor, Chair, Department of Management and Marketing, 330.941.3080
bdkeillor@ysu.edu

Enterprise Integration involves the integration of software, hardware, and networking technology at both the intra-organizational and inter-organizational levels. To be successful, management must implement a business process view of the organization. The ERP Certificate enables students to be effective users of integrated ERP software and effective participants in managing the evaluation, installation, and use of ERP software.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MGT 3761</td>
<td>Management Information Systems</td>
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<tr>
<td>or ACCT 3709</td>
<td>Accounting Information Systems</td>
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<tr>
<td>MGT 3789</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 4821</td>
<td>Business Process Integration</td>
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<td>MGT 4820</td>
<td>Supply Chain Management</td>
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<td><strong>Total Semester Hours</strong></td>
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<td><strong>12</strong></td>
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Students interested in declaring an ERP certificate need to complete an Intra University Request form with their academic advisor. Students must meet course prerequisites to be eligible to enroll in WCBA courses, including a minimum 2.5 overall GPA for upper level business courses. WCBA courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

Learning Outcomes

- Would acquire the knowledge and skills needed for careers in organizations that employ ERP systems to support key business processes.
- Would receive an applied enterprise systems educational experience and hands-on practice in SAP.
- Would be able to configure an ERP system and apply it to support integrated business processes.
- Would successfully integrate logistics, operations and procurement management.

Certificate in Leadership

Contact: Helen Han-Haas, Ph.D.
ghan@ysu.edu

The Certificate in Leadership provides YSU students with a broad understanding of leadership as a phenomenon and its impact on the organizational behavior of individuals and firm performance. The following courses are required:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
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</tr>
<tr>
<td>MGT 4801</td>
<td>Leadership in Business and Society</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3715</td>
<td>Employee Relations and Workplace Ethics</td>
<td>3</td>
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<tr>
<td>MGT 3755</td>
<td>Managing Workplace Diversity</td>
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</table>

Students interested in declaring a certificate in Leadership need to complete an Intra University Request form with their Academic Advisor. Students must meet all course prerequisites to enroll in WCBA courses, including a minimum 2.5 overall GPA for upper level business courses. WCBA courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

Learning Outcomes

- Identification and knowledge of leadership and management (how they are similar and different, and importance of both)
- Understand the impact of leadership styles on organizational performance
- Understand how leadership and diversity influence organizational effectiveness
- Understand and apply social influence principles

Minor in Advertising and Public Relations

Youngstown State University students are invited to enhance their educational experience with a minor in Advertising/Public Relations. Advertising and public relations is the study of communications by organizations to their various audiences, public image and to a large extent sales. The minor in Advertising/Public Relations can be met by completing the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADV 3710</td>
<td>Basic Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>ADV 3711</td>
<td>Marketing Communications</td>
<td>3</td>
</tr>
<tr>
<td>ADV 3712</td>
<td>Creative Strategies in IMC</td>
<td>3</td>
</tr>
<tr>
<td>ADV 4855</td>
<td>IMC Campaigns</td>
<td>3</td>
</tr>
<tr>
<td><strong>Advertising/Marketing Courses (6 SH)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ADV 3717</td>
<td>Media Planning and Buying</td>
<td></td>
</tr>
<tr>
<td>MKTG 3740</td>
<td>Professional Selling</td>
<td></td>
</tr>
<tr>
<td>MKTG 4811</td>
<td>Interactive Marketing</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
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</table>

Students interested in declaring a minor in Advertising/Public Relations need to complete an Intra University Transfer Request form with their academic advisor. Students pursuing a WCBA minor must meet all course prerequisites to be eligible to register for a WCBA course, including a minimum overall GPA of a 2.5 for all upper division business courses. WCBA minor courses must be completed with the grade "C" or higher and cannot be taken credit/no credit.

Minor in Employee Relations

Youngstown State University students are invited to enhance their educational experience with a minor in Employee Relations. Employee Relations involves the body of work concerned with maintaining employer-employee relationships that contribute to satisfactory productivity, motivation, and morale. Essentially, Employee Relations is concerned with preventing and resolving problems involving individuals, which arise out of or affect work situations. The minor in Employee Relations can be met by completing the following requirements:
Minimum 2.5 overall GPA for upper level business courses. WCBA courses must be completed with the grade of "C" or higher and cannot be taken credit/no credit.

### Minor in Entrepreneurship

**Contact:**

Dr. Bruce Keillor

bdkeillor@ysu.edu

The minor in Entrepreneurship is designed to provide a broad-based understanding of the entrepreneurial process and the unique problems and challenges faced by new ventures. In recognition of the broad spectrum of start-up concepts, these programs, while housed in the Williamson College of Business Administration, are open to students of all disciplines.

The minor is designed to serve students who are interested in starting their own company. Innovation, creativity, and opportunity recognition are critical skills necessary for anyone entering the marketplace. Learning these entrepreneurial skills will prepare one for the diverse and ever-changing opportunities that exist throughout the world of business.

#### Required Courses

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3750</td>
<td>Managing Individuals in Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two of the following:

| MGT 3705 | Fundamentals of Occupational Safety       | 3    |
| MGT 3715 | Employee Relations                         | 3    |
| MGT 3755 | Managing Workplace Diversity               | 3    |

Select one of the following:

| MGT 3761 | Management Information Systems             | 3    |
| MGT 4801 | Leadership in Business and Society         | 3    |
| MGT 4810 | Compensation and Performance Appraisal     | 3    |
| MGT 4819 | Selection, Training, and Development       | 3    |

#### Total Semester Hours

18-19

If any of the above courses are part of the student’s major, an alternate course needs to be substituted. Students interested in declaring a minor in Employee Relations need to complete an *Intra University Transfer Request* form with their academic advisor. Students must meet all course prerequisites to enroll in WCBA courses, including a minimum 2.5 overall GPA for upper level business courses. WCBA courses must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

### Minor in Management Information Systems

Youngstown State University students are invited to enhance their educational experience with a minor in Management Information Systems. Management information systems (MIS) provides information that organizations require to manage themselves efficiently and effectively; typically, computer systems are used for managing organizations. Students interested in learning more about the field of Management Information Systems through a minor would need to complete the following requirements:

#### Required Courses

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3761</td>
<td>Management Information Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:

| MGT 3771 | Social Media and E-Commerce                | 3    |
| MGT 3789 | Operations Management                       | 3    |
| MGT 4820 | Supply Chain Management                     | 3    |
| MGT 4821 | Business Process Integration                | 3    |
| MGT 4881 | Project and Quality Management              | 3    |
| MGT 5835 | Systems Analysis and Design                 | 3    |
| MGT 5865 | Database Management Systems                 | 3    |

#### Total Semester Hours

18

If any of the above courses are part of the student’s major, an alternate course needs to be substituted. Students interested in declaring a minor in Management Information Systems need to complete an *Intra University Transfer Request* form with their academic advisor. Students must meet all course prerequisites to enroll in WCBA courses, including a minimum 2.5 overall GPA for upper level business courses. WCBA courses must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

### Minor in Management

Youngstown State University students are invited to enhance their educational experience with a minor in Management. Management in businesses and organizations is the function that coordinates the efforts of people to accomplish goals and objectives by using available resources efficiently and effectively. Management includes planning, organizing, staffing, leading or directing, and controlling an organization to accomplish the goal. A minor in Management can be met through completion of the following requirements:

#### Required Courses

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3750</td>
<td>Managing Individuals in Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following:

| MGT 3705 | Fundamentals of Occupational Safety       | 3    |
| MGT 3715 | Employee Relations                         | 3    |
| MGT 3755 | Managing Workplace Diversity               | 3    |
| MGT 3771 | Social Media and E-Commerce                | 3    |
| MGT 3789 | Operations Management                       | 3    |

#### Electives

Select three of the following:

| MGT 3725 | Fundamentals of Management                 | 3    |

#### Total Semester Hours

18

Students interested in declaring a minor in Entrepreneurship need to complete an *Intra University Transfer Request* form with their academic advisor. Student must meet course prerequisites to enroll in WCBA courses, including a
**Minor in Marketing**

Youngstown State University students are invited to enhance their educational experience with a minor in Marketing. Marketing deals with processes that provide products and services to buyers with the goal of satisfying their needs and wants. Students interested in learning more about the field of marketing through a minor would need to complete the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 2604</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3702</td>
<td>Business Professional</td>
<td>1</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3740</td>
<td>Professional Selling</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3742</td>
<td>Selling Fundamentals</td>
<td>3</td>
</tr>
</tbody>
</table>

**MARKETING COURSES**

Select 6 S.H. of upper level MKTG and/or ADV courses

**Total Semester Hours**

Students interested in declaring a minor in Marketing need to complete an *Intra University Transfer Request* form with their academic advisor. Students must meet course prerequisites to enroll in WCBA courses, including a minimum overall GPA of 2.5 for all upper division business courses. WCBA courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 5835</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>MGT 5865</td>
<td>Database Management Systems</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Hours**

Students interested in declaring a minor in Management need to complete an *Intra University Transfer Request* form with their academic advisor. Students pursuing a WCBA minor must meet all course prerequisites to enroll in WCBA courses, including a minimum overall GPA of 2.5 for all upper division business courses. WCBA minor courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

**Department of Communication**

**OVERVIEW**

The Department of Communication faculty maintain high standards in teaching, research, and service. Faculty members are productive scholars in the discipline, staying abreast of technological and theoretical developments. These advancements are brought into the classroom to foster students’ ability to communicate competently using traditional and mediated channels. Students are introduced to the most recent and relevant communication theory, research, and technological skills through practical activities in mediated, interpersonal, public, and professional contexts that serve students’ long-term goals, promote the university, and serve the larger Youngstown community.

**CAREER OPPORTUNITIES**

Communication is all about learning how to communicate information effectively. Strong communication skills are essential in all industries and are invaluable in helping organizations succeed. The Department of Communications prepares students careers in broadcasting, public speaking, media relations, social media, scriptwriting, journalism and telecommunications.

**STUDENT EXPERIENCES**

Department of Communication students find many outlets to build on the skills they learn in and out of the classroom. For example, Lambda Pi Eta, a communication honorary society, recognizes our outstanding students and provides opportunities for greater involvement and leadership within the field of communication. Opportunities for active involvement in media production and programming exist with YSU Athletics (http://www.ysusports.com) (NCAA D1 sports productions), Penguin Rundown (https://www.facebook.com/Penguinrundown/) *(weekly sports web show)*, *The Jambar* (YSU's student newspaper), Light the Wick (https://www.youtube.com/channel/UCPSmcPPE6s-YvLMVzd1AcA/) *(arts-based web show)*, Rookery Radio (http://www.rookeryradio.com) *(YSU’s first-ever, internet-only, student-run radio station)*, and starting in the Fall 2019, Jambar TV.

**Dr. Amy Crawford, Chair**

The Department of Communication

agcrawford@ysu.edu (http://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/department-communication/agcrawford@ysu.edu)

330.941.2342

Chair

Amy Graban Crawford, Ph.D., Professor, Chair

Professor

Shelley Blundell, Ph.D., Assistant Professor

Rebecca M. L. Curnalia, Ph.D., Professor
The study of significant theories of communication that reflect the diversity of communication studies and address different communication contexts: interpersonal, group, public, organizational, and mass.

Gen Ed: Social Science.
CMST 3754 Argumentation 3 s.h.
Developing critical thinking through systematic evaluation of theories, principles, and practices of argumentation.
Prereq.: CMST 2600.

CMST 3756 Interviewing 3 s.h.
Theories of communication applied to interview situations with a special concern for developing student understanding of and skills needed to participate in one-to-one and panel interviews.
Prereq.: CMST 1545 and junior standing.

CMST 3757 Media Relations Writing 3 s.h.
A lecture-lab course in writing pamphlets, advertisements, newsletters, and websites for media relations campaigns.
Prereq.: ENGL 1551.

CMST 4850 Social Media Campaigns 3 s.h.
Integrated media campaign development using social media applications; theory and practice of social media campaign lifecycles including inception, implementation, and evaluation of client-based projects.
Prereq.: CMST 2655 and junior standing.

CMST 4851 New Communication Media 3 s.h.
New media histories, technologies, and cultures. Considers promising future forms, and includes issues of authorship, community, identity, interactivity, visuality, the nature and power of technology, intelligent systems, and artificial life.
Prereq.: CMST 2600 and junior standing.

CMST 4855 Interpersonal Communication Relationships 3 s.h.
Theories of relationship development, maintenance and termination. The impact of face-to-face and mediated communication on interpersonal relationships.
Prereq.: CMST 2600 and CMST 2656 and junior standing.

CMST 4859 Organizational Cultures 3 s.h.
Analysis of organizational cultures. Relationships between organizational culture and communication in modern organizations.
Prereq.: CMST 2655 and junior standing.

CMST 4879 Sports Communication Message Design 3 s.h.
Integrated media campaign development using theory and practice of communication. Students will explore lifecycles of sports information campaigns including inception, implementation, and evaluation of projects.
Prereq.: CMST 2600.

CMST 4896 Internship 3 s.h.
An application of communication theories and practice within organizational settings. Weekly meetings with faculty supervisor are required. Weekly field work is 15 hours. May be repeated to a maximum of 6 s.h.
Prereq.: CMST 2655, junior standing, major in Communication Studies, and approval of Internship Proposal form.

CMST 4898 Media Analysis 3 s.h.
Application of methods of analysis to describe and critique the content of various types of media, including new media, news media, and entertainment media. Emphasis on the relationship between media content, uses, and effects.
Prereq.: CMST 3700.

CMST 4899 Senior Project 3 s.h.
Synthesis of research, writing, and presentation skills through the completion of a communication research project and professional development activity. Repeatable to a maximum of 6 s.h. Grading is Traditional/PR.
Prereq.: Senior standing, major in Communication Studies, 24 s.h. of communication studies major complete, including CMST 3700 or CMST 3799. Gen Ed: Capstone.

CMST 5852 Conflict Management and Negotiation 3 s.h.
An in-depth analysis of the theories and variables influencing conflict management, resolution, and negotiation. Includes strategies and skills for meditation and arbitration.
Prereq.: CMST 2600 or CMST 6900.

CMST 5860 Persuasion and New Media 3 s.h.
Introduction to persuasion theory and application of theory to new communication media.
Prereq.: CMST 2600 and CMST 3700 or graduate status.

CMST 5889 Theory of Sports and Communication 3 s.h.
CMST 5889. An overview of sports and communication, their symbiotic relationship and the social, cultural, and political impact of that relationship.
Prereq.: CMST 2600 or TCOM 1570 and senior standing, or permission of instructor.

CMST 5898 Seminar 3 s.h.
A cooperative exploration of topics in communication studies. May be repeated up to 6 s.h.
Prereq.: CMST 2600.

CMST 6900 Introduction to Graduate Study 3 s.h.
Orientation to teaching, learning, and research in the communication discipline for new graduate students.

CMST 6945 Communication for the Classroom Teacher 3 s.h.
The study of communication theory and practice appropriate for the prospective classroom teacher. Theories and application exercises focus on interpersonal communication, group communication, and classroom speaking.

CMST 6950 Computer Mediated Communication Research 3 s.h.
Theory, research, and application of CMC including examination of computer communication theories and relevant research methodologies, web design theory and critiques, blogging, podcasting, e-mailing, social media, multimedia storytelling. Design, implementation, and evaluation of CMC.

CMST 6953 Group Dynamics: Theory and Research 3 s.h.
Theory and research of group processes, critical thinking and creativity strategies, theory of group leadership and teamwork, conflict management and mediation, advanced group decision-making and problem solving, motivational strategies.

CMST 6957 Organizational Communication Research 3 s.h.
Applies theories of organizational communication to a chosen organization. Culminates with report and presentation.

CMST 6970 Internship 3 s.h.
Communication-related work in a non-academic professional setting.
Prereq.: Completion of the MA core courses.

CMST 6980 Applied Research Methods 3 s.h.
Introduction to and application of qualitative research methods relevant to business communication settings.

CMST 6990 Measurement and Analysis 3 s.h.
Research processes using social scientific, quantitative methodologies and practical experience in conducting research. Essential skill development in research design, measurement, data collection and data analysis.

CMST 6991 Communication Problems: Independent Study 3 s.h.
Individual study and practical application of communication research principles to various organizational, group and mediated communication problems.

CMST 6994 Capstone 3 s.h.
Applied research paper on a communication topic. Oral presentation required. For non-thesis option students only. Thesis option students should take CMST 6995: Thesis.
Prereq.: Completion of the MA core courses.

CMST 6995 Thesis 1-6 s.h.
Research study on an applied communication topic. Oral presentation required. Total of 6 s.h. required for the MA thesis option. For thesis option students only. Non-thesis option students should take CMST 6994: Capstone.
Prereq.: Completion of the MA core courses.
JOUR 2600 Investigative Reporting Workshop 1 s.h.
Students become part of a team of reporters. The program will identify one reporting project that will be the focus of this laboratory. The project will be reported until completion. Students are expected to participate in gathering and analyzing information and in the writing and/or production of stories. Repeatable for up to 3 s.h.

JOUR 2602 Media Writing 3 s.h.
Introduction to writing for the mass media. Development of writing techniques and examination of styles and approaches used in writing for various mass audiences. Satisfies requirement for Integrated Language Arts Middle Childhood teaching license.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

JOUR 2603 Journalism Ethics and Social Responsibilities 3 s.h.
Examination of ethical standards and moral theories and their practical application in professional journalism through case studies. Students will learn to become active critics of media professionals.
Gen Ed: Arts and Humanities.

JOUR 2605 Journalism as Literature 3 s.h.
Examination of literary works by journalists. Study of journalism techniques transferred to literary storytelling.
Gen Ed: Arts and Humanities.

JOUR 2624 Imaging and Design of Media 3 s.h.
Focus on the use of photographs, graphics, tables, charts, and other visual products to convey messages. Includes study of basic visual literacy, design principles and technology. Crosslisted as ENGL 2624.

JOUR 2632 Introduction to Photojournalism 3 s.h.
The basics of photojournalism, including composition, lighting, editing, news judgment, and ethics.

JOUR 2633 Introduction to Videojournalism 3 s.h.
Prereq.: JOUR 2622 or JOUR 3725 or consent of instructor.

JOUR 2634 Introduction to Print Journalism 3 s.h.
Study of news reporting and writing, with emphasis on journalistic and AP style, development of news judgment, interviewing, and storytelling through traditional and new media. Coursework may require travel for reporting projects.
Prereq.: completion of JOUR 2624 or ENGL 1551 with a grade of "C" or better.

JOUR 2725 News Reporting 1 3 s.h.
Study of news reporting and writing, with emphasis on journalistic and AP style, development of news judgment, interviewing, and storytelling through traditional and new media. Coursework may require travel for reporting projects.
Prereq.: completion of JOUR 2624 or ENGL 1551 with a grade of "C" or better.

JOUR 2603 Investigative Reporting Workshop 1 s.h.
Students become part of a team of reporters. The program will identify one reporting project that will be the focus of this laboratory. The project will be reported until completion. Students are expected to participate in gathering and analyzing information and in the writing and/or production of stories. Repeatable for up to 3 s.h.

JOUR 2602 Media Writing 3 s.h.
Introduction to writing for the mass media. Development of writing techniques and examination of styles and approaches used in writing for various mass audiences. Satisfies requirement for Integrated Language Arts Middle Childhood teaching license.
Prereq.: Completion of ENGL 1551 with grade "C" or better.

JOUR 2624 Imaging and Design of Media 3 s.h.
Focus on the use of photographs, graphics, tables, charts, and other visual products to convey messages. Includes study of basic visual literacy, design principles and technology. Crosslisted as ENGL 2624.

JOUR 2632 Introduction to Photojournalism 3 s.h.
The basics of photojournalism, including composition, lighting, editing, news judgment, and ethics.

JOUR 2633 Introduction to Videojournalism 3 s.h.
Prereq.: JOUR 2622 or JOUR 3725 or consent of instructor.

JOUR 2634 Introduction to Print Journalism 3 s.h.
Study of news reporting and writing, with emphasis on journalistic and AP style, development of news judgment, interviewing, and storytelling through traditional and new media. Coursework may require travel for reporting projects.
Prereq.: JOUR 2622 or JOUR 3725 or consent of instructor.

JOUR 2635 Introduction to Digital Media 3 s.h.
Prereq.: JOUR 2622 or JOUR 3725 or consent of instructor.

JOUR 2636 Introduction to Interactive Media 3 s.h.
Study of the role and responsibilities of the media advisor in high school and college. Topics include the unique legal and ethical concerns of student media, the training of student staff, the relationship of the student press to the academic administration, and publication-management concerns. Listed also as ENGL 4821.
Prereq.: JOUR 2622 or JOUR 3725 or ENGL 3741.

JOUR 4822 Magazine Writing and Reporting 3 s.h.
In-depth study of writing and reporting techniques for magazine journalists. Emphasis on learning freelance skills, getting work published, and marketing yourself as a magazine writer. Coursework may require travel for reporting projects.
Prereq.: JOUR 3725 or JOUR 2622, and JOUR 2624.
JOUR 4823 In-Depth Reporting 3 s.h.
Emphasis on extended research, extensive interviewing and investigative reporting techniques. Coursework may require travel for reporting projects.
Prereq.: JOUR 2622 or JOUR 3725.

JOUR 4824 Press Law and Ethics 3 s.h.
Study of First Amendment rights of the press; examination of laws concerning libel, privacy, copyright, obscenity, censorship, open meetings and open records in Ohio; discussion of press responsibilities.
Prereq.: JOUR 2622 or JOUR 3725 and Junior standing.

JOUR 4825 Selected Topics in Journalism 3 s.h.
Study of approaches to and special aspects of journalism not covered in depth in other journalism courses. May be repeated once with change of topic.
Prereq.: JOUR 2622 or JOUR 3725.

JOUR 4860 News Reporting 2 3 s.h.
Focus is on advanced news reporting and storytelling skills. Includes in-depth coverage investigative, and enterprise journalism.
Prereq.: JOUR 2622 or JOUR 3725.

JOUR 4893 Journalism Senior Project 3 s.h.
Capstone experience for journalism major. Individualized enterprise/ investigative reporting projects with demonstration of advanced newsgathering techniques. Coursework may require travel for reporting projects.
Prereq.: Senior standing; and JOUR 3760 or JOUR 4860 and JOUR 4824.
Gen Ed: Capstone.

JOUR 4894 Journalism Internship 3 s.h.
Supervised journalism work experience. Students complete 60 hours for each hour registered. Internship placement is selective. Coursework may require travel for reporting projects. May be repeated with the approval of the department chairperson for up to 6 hours.
Prereq.: JOUR 3721L and junior standing and 2.5 GPA.

JOUR 4899 Sports Information Internship 1-3 s.h.
Sports Information Internship. Supervised work-and-learning experiences in sports information under the direction of a faculty member and an employee of a participating outside organization. Students complete 40 hours for each hour registered. Internship placement is selective. May be repeated with the approval of the department chairperson for total of 6 hours.
Prereq.: JOUR 3759, junior standing.

TCOM 1500 Orientation to Telecommunication Studies 1 s.h.
Survey of University and Department programs, policies, practices and facilities with particular emphasis on needs of telecommunication studies majors. Creation of telecommunication studies portfolio materials and other aspects of the Telecommunication Studies program. To be taken prior to TCOM 2682 and TCOM 2683.

TCOM 1510 Sports Field Production 1 1 s.h.
Assignment to one or more production crews in conjunction with YSU Athletics and Horizon League Sports. Student responsibilities will be determined in light of skills and interests, as well as the production need. May be repeated.
Prereq.: TCOM 2610.

TCOM 1515 Introduction to Electronic Sports Media 3 s.h.
A study of the electronic sports media as business and social forces; attention given to how media and sport industries grew as consorts into the Sports Media complex, basic legal and ethical considerations for sports media practitioners; the various platforms through which sports media content is offered; electronic sports media roles and careers; and the social implications of the electronic sports media.

TCOM 1580 Introduction to Telecommunication Studies 3 s.h.
A survey course designed to familiarize students with the principles and practices involved in radio and television broadcasting, cable, and other electronic communication systems.

TCOM 1581 Telecommunication Technologies 2 s.h.
Operational principles of audio, data, and video telecommunication technologies. One hour lecture and two hours lab per week.

TCOM 1595 Media Literacy and Culture 3 s.h.
This course offers a critical survey of the role played by mass communication in shaping culture. Individual media institutions are examined in terms of the information they distribute, the entertainment they provide, and the influence they exercise. Special attention is paid to the audience-medium relationship and the concept of media literacy.
Gen Ed: Social Science.

TCOM 2610 Sports Field Production 2 1 s.h.
Assignment to one or more production crews in conjunction with YSU Athletics and Horizon League Sports. Student responsibilities will be determined in light of skills and interests, as well as the production need. May be repeated.
Prereq.: TCOM 1510.

TCOM 2682 Scriptwriting for Electronic Media 3 s.h.
Fundamentals of telecommunication media writing with emphasis on the theory analysis and practices in the preparation of continuity, news, and documentaries.
Prereq.: TCOM 1570 or TCOM 1580; TCOM 1581; and ENGL 1550 with a grade of "C" or better in all.

TCOM 2683 Media Operations and Performance 3 s.h.
An introduction of practices and procedures basic to media production facilities. The equivalent of three hours lecture and two hours lab per week.
Prereq.: TCOM 1580 or TCOM 1570 and ENGL 1550 with a grade of "C" or better in both.

TCOM 2684 Broadcast News Practices 3 s.h.
Organization, preparation, and presentation of radio and television news programs. Includes study of journalistic requirements of broadcast media and broadcast newsroom operation. The equivalent of three hours lecture and two hours lab per week.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both.

TCOM 3701 Sports Field Production 3 1 s.h.
Assignment to one or more production crews in conjunction with YSU Athletics and Horizon League Sports. Student responsibilities will be determined in light of skills and interests, as well as the production need. May be repeated.
Prereq.: TCOM 2610.

TCOM 3780 Principles and Practices of Media Announcing 3 s.h.
A study of the announcer's role in electronic mass media. Examination of theories, techniques, and major styles of media announcing. Three hours lecture, two or more hours of individualized lab per week.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both; major in Telecommunication Studies.

TCOM 3781 Audio Production 3 s.h.
Study of the concepts of audio production, including student production of various types of programs. The equivalent of three hours lecture and two hours lab per week.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both; major in Telecommunication Studies.

TCOM 3782 Video Production 1 3 s.h.
Study of studio production elements such as equipment, lighting, scene design, graphics, and special effects. The equivalent of three hours lecture and two hours lab per week.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both; major in Telecommunication Studies.

TCOM 3783 Telecommunications Regulation 3 s.h.
Responsibilities of electronic media communicators as prescribed by law and administrative agency policies, and court decisions. Analysis of the regulatory environment of broadcasters, common carriers, and cable.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both; major or minor in Telecommunication Studies.
TCOM 3784  Electronic Media Content Strategies  3 s.h.
A study of contemporary electronic media strategies involving the legacy
broadcast media, traditional cable/satellite systems, and the evolving
streaming media environment. Students will explore audience strategies,
content development and competitive stratagems.

TCOM 3786  Video Production 2  3 s.h.
Study and application of television production elements and editing.
Production values of composition, transition, and sequence explored from a
communication perspective. Students produce field-based productions. Three
hours lecture, two hours lab.
Prereq.: TCOM 3782.

TCOM 3787  Practicum in Telecommunication  1-3 s.h.
Individual study and practical application of communication principles to
various telecommunication problems. Repeatable to a maximum of 6 s.h.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both.

TCOM 3789  Electronic Media Interviewing  3 s.h.
A study and application of interviewing and reporting techniques, emphasizing
the local news interview and public affairs reporting. The equivalent of three
hours lecture and two hours lab per week.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both.

TCOM 3790  Broadcast News Lab  3 s.h.
Study and lab in news programs for TV, radio and web. Requirements of
broadcast media and newsroom operation. Students create the weekly
webcast, Light the Wick, or similar content. Two hours lecture and two hours
lab per week.
Prereq.: JOUR 2622 or TCOM 2682 or TCOM 2683.

TCOM 3791  Electronic Media Sales and Promotion  3 s.h.
An examination of the principles and practices of selling electronic media.
Analysis of rating-based sales and promotion strategies, as well as relations
with agencies and station representatives. The equivalent of three hours
lecture and two hours lab per week.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both.

TCOM 3792  Broadcast Sports Producing and Writing  3 s.h.
A study of the fundamentals of producing broadcast sports media content,
including script development and line producing.
Prereq.: TCOM 1570, TCOM 2682, TCOM 2683 with a grade of "C" or better.

TCOM 3793  Broadcast Sports Performance  3 s.h.
Students receive instruction on play-by-play announcing and on the
preparation and extemporaneous discussion of player and team statistics
as well as other appropriate sports-related information. Skills for conducting
media interviews.
Prereq.: TCOM 1570, TCOM 2682, TCOM 2683.

TCOM 3794  Cross-platform Sports Broadcasting  3 s.h.
Examination of and instruction in new media technologies to deliver sports
media content. Emphasis on how the interactive nature of online content
changes traditional notions of presentation and distribution.
Prereq.: TCOM 1570, TCOM 2682, TCOM 2683.

TCOM 3795  Sports Media Production 1  3 s.h.
Theory and practice of remote radio and television sports production for
volleyball, soccer, and baseball. Students produce and direct coverage of
sporting events. Meets equivalent of 2 hours lecture plus 4 hours field lab per
week. May be repeated once.
Prereq.: TCOM 1570, TCOM 2682, TCOM 2683.

TCOM 4850  Advanced Audio/Video Production and Editing  3 s.h.
Advanced techniques and procedures in audio/video production. Techniques
include digital editing and video post-production procedures. Recognize
current video and audio technology and how to troubleshoot problems
associated with such technology.
Prereq.: TCOM 3781 or TCOM 3782 with a grade of "C" or better.

TCOM 4851  Telecommunication Management  3 s.h.
A study of the relationships of communication management with government,
networks, ownership and other groups. Organization and procedures of typical
units; common planning models.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both;
major or minor in Telecommunication Studies.

TCOM 4852  Remote Media Production  2 s.h.
A project-based study of practices and procedures basic to remote media
production facilities. Students will explore audience strategies, content
development and competitive stratagems as well as detailed study of various
remote TV production crew positions. May be repeated for a maximum of 4
semester hours if the remote production projects are different.
Prereq.: TCOM 1580 or TCOM 1570.

TCOM 4854  Video Production Direction  3 s.h.
A study and application of the communication roles and skills associated with
video directing. Emphasis on audience analysis. The equivalent of three hours
lecture and two hours lab per week.
Prereq.: TCOM 3782.

TCOM 4855  Developments in Telecommunication Media  3 s.h.
Study and application of uses of telecommunication media apart from
commercial broadcasting. Study of new technologies and their potential.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both.

TCOM 4856  Audience and Market Measure  3 s.h.
Methods of collecting, analyzing, and using information about media markets.
Includes quantitative and non-quantitative techniques.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both.

TCOM 4857  Theories and Criticisms of Telecommunication  3 s.h.
Study of contemporary theories and research in telecommunication.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both;
major or minor in Telecommunication Studies.

TCOM 4885  Internship Telecommunication  3 s.h.
An application of telecommunication theory and practices within organizations
primarily concerned with telecommunication. Students are selected on the
basis of special qualifications, including GPA, courses taken, and competitive
interview. Enrollment is contingent on the availability of internship positions.
Twenty hours a week.
Prereq.: Junior standing in telecommunications and permission of internship coordinator.

TCOM 4886  Internship Sports Internship  3 s.h.
An application of sports media theory and practices within sports and sports
media organizations such as university, semi-professional and professional
organizations.
Prereq.: TCOM 1570, TCOM 3792, TCOM 3793, TCOM 3794, and TCOM 3795;
selection by sponsoring organization.

TCOM 4890  Producing Broadcast News  3 s.h.
Supervision of news programs for TV, radio and web. Story development,
shooting/editing, script management, graphics creation, studio operations,
and on-camera performance. Creation and marketing of the webcast, Light the
Wick, or equivalent. Two hours lecture and two hours lab per week.
Prereq.: TCOM 3790.

TCOM 4897  Seminar in Telecommunication  3 s.h.
Designed to investigate contemporary aspects of telecommunication. May be
repeated for credit if topic is different.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both;
major in Telecommunication Studies.

TCOM 4897M  Seminar in Telecommunication Sports and Media  3 s.h.
Designed to investigate contemporary aspects of telecommunication. May be
repeated for credit if topic is different.
Prereq.: TCOM 2682 and TCOM 2683 with a grade of "C" or better in both;
major in Telecommunication Studies.
Bachelor of Arts in Communication Studies, Interpersonal/Organizational Track

Overview

Our combination of interpersonal and organizational courses provides students with practical skills relevant to traditional and emerging workplace settings as well as personal skills that employers value highly.

Interpersonal communication courses introduce one-to-one communication behaviors and the impact of those behaviors on personal relationships. Through a blend of theory and practice, students are encouraged to develop confidence and ability as ethical communicators; to view communication events from multiple perspectives; to understand the multicultural character of communication in contemporary society; to analyze and evaluate variables operating in verbal transactions; and to probe the basic problems of human communication in order to understand self, others, and events.

The organizational communication courses enable you to not only increase your understanding of communication and its impact on complex organizations, but also to enhance your effectiveness as a member of various organizations. Organizational communication courses within this track focus on a plethora of skills which will allow you to hone your abilities as a communicator in the business context and guide you through society’s changing career demands.

This track includes skills you will need for success in various interviewing scenarios. By learning employee, performance and persuasive interviewing skills, you will be more adept at seeking the proper job, meeting a client’s needs, and performing more effectively within an organization. Enacting problem-solving techniques, adapting to different conflict management styles, learning group member roles, trying on different leadership styles, recognizing and adapting to changing organizational cultures, and learning about effective superior-subordinate communication styles are but a few of the skills which you will acquire which will also enhance the success of both you and your organization in classes such as organizational cultures (CMST 4859) and conflict management and negotiation (CMST 5852). Organizational communication courses provide you with an abundance of applicable skills which will transcend the various positions, stages of employment, and organizational types you may experience in today’s dynamic job market.

This track also includes courses which will expand your interpersonal skills. These courses include intercultural communication (CMST 2610) and gender communication (CMST 3750). Intercultural communication focuses on the application of theory and research about intercultural communication to provide you with an intellectual framework that allows the description and understanding of communication between culturally heterogeneous individuals. It also helps you to develop communication skills that improve competence in intercultural communication situations. In the gender communication course, you will learn concepts and issues of femininity and masculinity as they apply to communication between and among genders in a variety of contexts.

Possible Careers

- Human resource specialist
- Graduate programs (masters, doctoral degree)
- Training and development specialist
- Internal communication specialist
- Organizational training & development
- Labor negotiator/recruiter
- Section/branch manager
- Regional manager
- Store manager
- Product buyer
- Community affairs coordinator
- Government affairs coordinator
- Account representative
- Retail salesperson
- Real estate salesperson
- Insurance salesperson
- Career development specialist
- Business analyst
- Corporate communications manager
- Student advising/recruitment

Complementary Minors

- Accounting
- Business
- Languages
- General Sociology
- Human Geography
- Human Resources
- Social Work
- Loss Prevention & Asset Protection
- Management Information Systems
- Nonprofit Leadership
- Professional Ethics
- Psychology
- Social Institutions

Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 39 semester hours in CMST. Students must complete 18 credits of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.
### Major Requirements
- CMST 2600 Communication Theory 3
- CMST 2630 Social Media Literacy 3
- CMST 2655 Communication in Groups and Organizations 3
- CMST 2656 Interpersonal Communication 3
- CMST 3700 Designing Communication Research 3
- CMST 4899 Senior Project 3

### Interpersonal/Organizational Track
- CMST 2610 Intercultural Communication 3
- CMST 3750 Gender Communication 3
- CMST 3756 Interviewing 3
- CMST 4850 Social Media Campaigns 3
- CMST 4855 Interpersonal Communication Relationships 3
- CMST 4859 Organizational Cultures 3
- CMST 5852 Conflict Management and Negotiation 3

### Electives (note that students must complete 39 hours of upper division courses; 37xx and above)

### Minor Requirements (note that some minors require more than 18 credits)

### Total Semester Hours 120-122

## Year 1
### Fall
- SU 1500 or SS 1500 or HONR 1500 Success Seminar or Strong Start Success Seminar or Intro to Honors 1-2
- CMST 1545 Communication Foundations 3
- ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
- MATH 2623 Quantitative Reasoning 3
- NS XXXX Natural Science GER + lab 4

### Semester Hours 14-16

### Spring
- CMST 2600 Communication Theory 3
- CMST 2630 Social Media Literacy 3
- CMST 2656 Interpersonal Communication 3
- ENGL 1551 Writing 2 3
- SPA XXXX GER Social & Personal Awareness 3

### Semester Hours 15

## Year 2
### Fall
- CMST 2655 Communication in Groups and Organizations 3
- Minor Course 3
- SPA XXXX GER Social & Personal Awareness 3
- NS XXXX GER Natural Science 3
- FNLG 1550 Elementary Foreign Language 4

### Semester Hours 16

### Spring
- CMST 2610 Intercultural Communication 3
- Minor Course 3
- AH XXXX Arts & Humanities GER 3
- SS XXXX Social Sciences GER 3
- FNLG 2600 Intermediate Foreign Language 4

### Semester Hours 16

## Year 3
### Fall
- CMST 3700 Designing Communication Research 3
- CMST 3750 Gender Communication 3

## Learning Outcomes
Regardless of track, students graduating with a B.A. degree in Communication Studies will:

1. Students graduating with a B.A. degree in Communication Studies will interpret, evaluate, and apply communication scholarship.
2. Students graduating with a B.A. degree in Communication Studies will perform verbal and nonverbal behaviors that illustrate self-efficacy.
3. Students graduating with a B.A. degree in Communication Studies will identify communication theories, perspectives, principles, and concepts.

Bachelor of Arts in Communication Studies, Media Track

### Overview
Our Media Track was developed in conjunction with new courses in media relations writing, media relations campaigns, and media analysis. The goal of this track is to provide students with practical, hands-on experience with media relations applications and strategies, new media technologies, and current and emerging mass communication practices. This track provides professional skills in media management and public relations. You will be...
introduced to old and new technologies as well as more challenging issues related to research of new communication technologies.

Media analysis (CMST 4898) will teach you to critically analyze media messages; explore how political, social, and economic forces affect media messages; and discuss how media content affects media users. In media relations writing (CMST 3757) and media relations campaigns (CMST 3717), you will learn how to write press releases and ad content for different types of media and how to plan and implement a public relations, marketing, and advertising campaign using a variety of mass media outlets. Because media relations campaigns and information technology skills are often applied in business settings, you will take a course in organizational cultures (CMST 4859) to prepare you to use your media skills in diverse organizational settings.

Possible Careers

- Advertising
- Agent (e.g., sports, entertainment)
- Web Designer/Director
- Writer
- Community Relations
- News Service Researcher
- Public Relations Manager
- Market Research
- Information Management
- Media Buyer/Ad Sales
- Audience/Media Research

Complementary Minors

- Advertising/Public Relations
- Art & Technology
- Language
- Graphic Design
- Information Systems Programming
- Integrated Technologies
- Journalism
- Management Information Systems
- Marketing
- Multimedia and Web Design
- Photography
- Professional and Technical Writing
- Telecommunication Studies

Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 39 semester hours in CMST. Students must complete 18 credits of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.

<table>
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<tr>
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<tr>
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<td>or SS 1500</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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General Education Requirements

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<tbody>
<tr>
<td>ENGL 1550</td>
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<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
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</table>

Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 39 semester hours in CMST. Students must complete 18 credits of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.

Arts and Humanities (6 s.h.)
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)
Social Science (6 s.h.)
Social and Personal Awareness (6 s.h.)

Foreign Language Requirement
Foreign Language 1550 4
Foreign Language 2600 4

Major Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
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<td>Social Media Literacy</td>
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<tr>
<td>CMST 2655</td>
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<td>CMST 2656</td>
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<td>CMST 3700</td>
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Media Track

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<tr>
<td>CMST 3756</td>
<td>Interviewing</td>
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</tr>
<tr>
<td>CMST 3757</td>
<td>Media Relations Writing</td>
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<td>CMST 4850</td>
<td>Social Media Campaigns</td>
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<td>CMST 4851</td>
<td>New Communication Media</td>
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<td>CMST 4859</td>
<td>Organizational Cultures</td>
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<td>CMST 4898</td>
<td>Media Analysis</td>
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</table>

Minor Requirements (note that some minors require more than 18 credits) 18

Electives (note that students must complete 39 hours of upper division courses; 37xx and above) 17

Total Semester Hours 120-122

Year 1

Fall

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
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<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
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<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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Semester Hours 14-16

Spring

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<tbody>
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<td>Social Media Literacy</td>
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Semester Hours 15

Year 2

Fall

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<td>GER Natural Science</td>
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Semester Hours 16

Spring

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<tr>
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</tbody>
</table>
Bachelor of Arts in Communication Studies, Persuasion Track

Overview

Our Persuasion Track is designed for students interested in careers that involve a great deal of personal interaction and influence. Courses of instruction will deepen your understanding of argumentation, persuasive techniques, public speaking, and help you improve your knowledge and skills in intercultural and social media contexts.

Courses on this track include the core communication courses as well as intercultural communication, presentational speaking, interviewing, argumentation, persuasion, social media campaigns, and new communication media. Classes in presentational speaking, argumentation, and persuasion will develop your public speaking skills beyond the basic skills learned in CMST 1545. Social media and new communication media will prepare you for advancements in communication specifically related to the use of new media for persuasion.

In addition to learning how to present ideas effectively in person-to-person and mediated contexts, students also learn skills relevant to persuading people and developing arguments, which will prove to be essential in careers in sales, customer service/relations, marketing and/or advertising. In intercultural communication, students will learn how to effectively adapt to culturally diverse audiences when preparing and delivering persuasive messages.

This degree prepares students for several career paths (see below), but also leads students to advanced areas of study. For example, graduate study in communication will prepare you for a life of research and teaching in areas such as argumentation (and debate), persuasion, and public speaking. Students who choose this track are often prepared for a Master’s in Business Communication (MBA). The MBA, coupled with a B.A. degree in communication studies with an emphasis on persuasion, is useful in many industries, especially the corporate setting. The persuasion track will prepare you for law school, or for public service in government and politics. Other students may choose this track in preparation for divinity school which, in turn, can lead to a career as a religious leader. Additionally, students who earn a communication degree with an emphasis on persuasive skills are qualified for many sales and marketing positions.

Possible Careers

- Speech Writer
- Political Consultant
- Political Debate Coach
- Political Analyst
- Public Relations
- Advertising
- Lobbyist
- Commentator
- Consumer Advocate
- Press Secretary
- Book Publicist
- Campaign Manager
- Community Relations
- Ministry
- Legislator
- Motivational Speaker
- Account Representative
- Communication Consultant
- Forensics Coach
- Fundraiser
Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 39 semester hours in CMST. Students must complete 18 credits of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.

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<td>or HONR 1500</td>
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General Education Requirements

| ENGL 1550 | Writing 1                                  | 3-4  |
| or ENGL 1549 | Writing 1 with Support               |      |
| ENGL 1551 | Writing 2                                  | 3    |
| CMST 1545 | Communication Foundations                 | 3    |

Mathematics Requirement (e.g., MATH 2623, STAT 2625) 3
Arts and Humanities (6 s.h.) 6
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) 7
Social Science (6 s.h.) 6
Social and Personal Awareness (6 s.h.) 6

Foreign Language Requirement

| Foreign Language 1550 | 4 |
| Foreign Language 2600 | 4 |

Major Requirements

| CMST 2600 | Communication Theory                        | 3 |
| CMST 2630 | Social Media Literacy                       | 3 |
| CMST 2655 | Communication in Groups and Organizations   | 3 |
| CMST 2656 | Interpersonal Communication                 | 3 |
| CMST 3700 | Designing Communication Research            | 3 |
| CMST 4899 | Senior Project                              | 3 |

Persuasion Track

| CMST 2610 | Intercultural Communication                  | 3 |
| CMST 3746 | Presentational Speaking                      | 3 |
| CMST 3754 | Argumentation                               | 3 |
| CMST 3756 | Interviewing                                | 3 |
| CMST 4850 | Social Media Campaigns                       | 3 |
| CMST 4851 | New Communication Media                      | 3 |
| CMST 5860 | Persuasion and New Media                     | 3 |

Minor Requirements (note that some minors require more than 18 credits) 18

Electives (note that students must complete 39 hours of upper division courses; 37xx and above) 17

Total Semester Hours 120-122

Year 1

<table>
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<tr>
<td>YSU 1500</td>
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<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
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Semester Hours 14-16

Spring

CMST 2600 | Communication Theory | 3 |
CMST 2630 | Social Media Literacy | 3 |
CMST 2656 | Interpersonal Communication | 3 |
ENGL 1551 | Writing 2 | 3 |
GER Social & Personal Awareness | 3 |

Semester Hours 15

Year 2

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<tr>
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<td>CMST 3746</td>
<td>Presentational Speaking</td>
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<td>GER Natural Science</td>
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<td>FNLG 1550</td>
<td>Elementary Foreign Language</td>
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Semester Hours 16

Spring

CMST 2610 | Intercultural Communication | 3 |
GER Arts & Humanities | 3 |
GER Social Sciences | 3 |
FNLG 2600 | Intermediate Foreign Language | 4 |

Semester Hours 16

Year 3

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<td>GER Social Sciences</td>
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Semester Hours 15

Spring

CMST 3754 | Argumentation | 3 |
CMST 3756 | Interviewing | 3 |
Minor course | 3 |
Upper Division General Elective | 3 |
Upper-division General Elective | 3 |

Semester Hours 15

Year 4

<table>
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<tr>
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<td>Social Media Campaigns</td>
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<tr>
<td>CMST 4851</td>
<td>New Communication Media</td>
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<td>Upper-division Minor course</td>
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</table>
LEARNING OUTCOMES
Regardless of track, students graduating with a B.A. degree in communication studies will:

1. Students graduating with a B.A. degree in Communication Studies will interpret, evaluate, and apply communication scholarship.
2. Students graduating with a B.A. degree in Communication Studies will perform verbal and nonverbal behaviors that illustrate self-efficacy.
3. Students graduating with a B.A. degree in Communication Studies will demonstrate communication expertise in their career development.
4. Students graduating with a B.A. degree in Communication Studies will identify communication theories, perspectives, principles, and concepts.

Students completing their degree in communication studies are uniquely qualified to enter the job market and compete effectively throughout their careers for advancement and promotion.

Through course offerings and applied learning experiences, the communication studies program combines a rich liberal arts emphasis with a much needed specialized professional and career focus for undergraduate students.

Bachelor of Arts in Communication Studies, Social Media Track

Overview
Social media management requires a unique set of skills that take students far beyond traditional communication and media production proficiency. However, our social media track does more than just prepare graduates to competently use leading social media platforms like Facebook, Twitter, and Instagram. Beyond learning the general functionality of social media, students learn to employ ethical standards for communicating with social media while applying their own moral standards. Students on this track explore the dangers of social media, and the importance of setting social media policies for the workplace.

With the appropriate support courses and possible minor options, the social media track prepares students for communicating and marketing with social media, including effective use of interactive designs. Students can learn to examine the social press and how to share client and personal expertise and experiences with the online world, how to use social tools for collaborative work, and how to distinguish the characteristics and methods, advantages and pitfalls, of virtual communities, social photos and videos, collective intelligence, crowd-sourcing, social production, and wiki collaboration.

Possible Careers
- Communications Director
- Consumer Media Experience
- Content Marketing Manager
- Digital and Social Media Strategist
- Digital and Social Analytics
- Internet Marketing Director
- Multimedia and Content Producer
- Online Community Manager
- Public Relations Manager
- Social Influencer Manager
- Social Media Manager, Producer
- Social Media Sales

Complementary Minors
- Advertising and Public Relations
- Business
- Computer Databases
- Computer Networking
- Computer Science
- Creative Writing
- Digital Media
- Electronic Commerce Tech
- Entrepreneurship
- Graphic Design
- Interactive Design
- Journalism
- Management
- Marketing
- Multimedia and Web Design
- Multimedia and Specialty Reporting
- Nonprofit Leadership
- Photography
- Professional Writing and Editing
- Telecommunication Studies
- Web Communications

Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 39 semester hours in CMST. Students must complete 18 credits of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.

Bachelor of Arts in Communication Studies, Social Media Track

Overview
Social media management requires a unique set of skills that take students far beyond traditional communication and media production proficiency. However, our social media track does more than just prepare graduates to competently use leading social media platforms like Facebook, Twitter, and Instagram. Beyond learning the general functionality of social media, students learn to employ ethical standards for communicating with social media while applying their own moral standards. Students on this track explore the dangers of social media, and the importance of setting social media policies for the workplace.

With the appropriate support courses and possible minor options, the social media track prepares students for communicating and marketing with social media, including effective use of interactive designs. Students can learn to examine the social press and how to share client and personal expertise and experiences with the online world, how to use social tools for collaborative work, and how to distinguish the characteristics and methods, advantages and pitfalls, of virtual communities, social photos and videos, collective intelligence, crowd-sourcing, social production, and wiki collaboration.

Possible Careers
- Communications Director
- Consumer Media Experience
- Content Marketing Manager
- Digital and Social Media Strategist
- Digital and Social Analytics
- Internet Marketing Director
- Multimedia and Content Producer
- Online Community Manager
- Public Relations Manager
- Social Influencer Manager
- Social Media Manager, Producer
- Social Media Sales

Complementary Minors
- Advertising and Public Relations
- Business
- Computer Databases
- Computer Networking
- Computer Science
- Creative Writing
- Digital Media
- Electronic Commerce Tech
- Entrepreneurship
- Graphic Design
- Interactive Design
- Journalism
- Management
- Marketing
- Multimedia and Web Design
- Multimedia and Specialty Reporting
- Nonprofit Leadership
- Photography
- Professional Writing and Editing
- Telecommunication Studies
- Web Communications

Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 39 semester hours in CMST. Students must complete 18 credits of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Year</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>CMST 2655</td>
<td>Communication in Groups and Organizations</td>
<td>3</td>
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<tr>
<td>CMST 2656</td>
<td>Interpersonal Communication</td>
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<tr>
<td>CMST 3700</td>
<td>Designing Communication Research</td>
<td>3</td>
<td>3</td>
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<tr>
<td>CMST 4899</td>
<td>Senior Project</td>
<td>3</td>
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**Social Media Track**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Year</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>JOUR 2624</td>
<td>Imaging and Design of Media</td>
<td>3</td>
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<tr>
<td>CMST 3717</td>
<td>Intro to Media Relations Campaigns</td>
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<tr>
<td>CMST 3740</td>
<td>Social Media Communication</td>
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<tr>
<td>CMST 3757</td>
<td>Media Relations Writing</td>
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<td>CMST 4850</td>
<td>Social Media Campaigns</td>
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<tr>
<td>CMST 4851</td>
<td>New Communication Media</td>
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<tr>
<td>CMST 5860</td>
<td>Persuasion and New Media</td>
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**Minor Requirements**

- **Electives** (note that some minors require more than 18 credits)
- **Total Semester Hours**

**Year 1**

<table>
<thead>
<tr>
<th>Semester Hours</th>
<th>Year</th>
<th>Course</th>
<th>Title</th>
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<th>Semester Hours</th>
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<td>YSU 1500</td>
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<td>S.H.</td>
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<td>or SS 1500</td>
<td>or Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
<td>or Intro to Honors</td>
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<td>Communication Foundations</td>
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<td>Writing 1</td>
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<td></td>
<td></td>
<td>GER Social &amp; Personal Awareness</td>
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<td></td>
<td></td>
<td>GER Natural Science</td>
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<td>CMST 3717</td>
<td>Intro to Media Relations Campaigns</td>
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**Year 4**

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<td>CMST 4899</td>
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<td>CMST 3757</td>
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<td>GER Social Science</td>
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<td>Upper-division Minor Course</td>
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<td></td>
<td>Upper-division General Elective</td>
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</table>

**LEARNING OUTCOMES**

Regardless of track, students graduating with a B.A. degree in communication studies will:

1. Students graduating with a B.A. degree in Communication Studies will interpret, evaluate, and apply communication scholarship.
2. Students graduating with a B.A. degree in Communication Studies will perform verbal and nonverbal behaviors that illustrate self-efficacy.
3. Students graduating with a B.A. degree in Communication Studies will demonstrate communication expertise in their career development.
4. Students graduating with a B.A. degree in Communication Studies will identify communication theories, perspectives, principles, and concepts.

Students completing their degree in communication studies are uniquely qualified to enter the job market and compete effectively throughout their careers for advancement and promotion.

Through course offerings and applied learning experiences, the communication studies program combines a rich liberal arts emphasis with a much needed specialized professional and career focus for undergraduate students.

**Bachelor of Arts in Journalism**

The B.A. in Journalism prepares students for positions in media production, reporting, editing and design. There are two tracks for students majoring in journalism, journalism and journalism broadcast and digital media. The curriculum offers a blend of courses to support this goal. The coursework begins with basic photo, video, writing, reporting and visual literacy skills. These are then followed by courses that focus on design, and advanced reporting and writing projects. Those on the journalism studies track will take a series of electives and interdisciplinary courses, to build skills in interviewing, writing, social media and specialized journalism.

Other on-campus outlets for student writing and productions include the *Penguin Review*, the *yo magazine* (http://www.thejambar.com/category/yo-magazine/), *The Jenny*, *Rookery Radio*, and thejambar.com. Internships and
other writing opportunities are available at local media outlets including local TV, radio and newspapers. The Business Journal, The Vindicator, and the Tribune Chronicle. Additionally, Journalism majors are encouraged to declare minors that support their specific career objectives, such as public relations, political science, telecommunications, or art/design.

## Complementary Minors

- Advertising and Public Relations
- American Politics
- Business
- Communication Studies
- Creative Writing
- Criminal Justice System or Juvenile Justice System
- Digital Media or Graphic Design (for Non-Art Majors)
- Economics
- Entrepreneurship
- Marketing
- Multimedia and Web Design
- Photography (for Non-Art Majors)
- Professional and Technical Writing
- Public Health
- Social Media Campaigns
- Statistics
- Web Communications

### COURSE TITLE S.H.

#### FIRST YEAR REQUIREMENT - STUDENT SUCCESS

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>YSU 1500</td>
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<td>1-2</td>
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<tr>
<td>or SS 1500</td>
<td>Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
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#### General Education Requirements

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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3-4</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>Writing 1 with Support</td>
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</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics Requirement (e.g., MATH 2623, STAT 2625)</td>
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<tr>
<td>Arts and Humanities (6 s.h.)</td>
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<tr>
<td>Natural Sciences (2 courses, 1 with lab) (7 s.h.)</td>
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<tr>
<td>Social Science (6 s.h.)</td>
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<tr>
<td>Social and Personal Awareness (6 s.h.)</td>
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#### Foreign Language Requirement

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<td>Foreign Language 1550</td>
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<tr>
<td>Foreign Language 2600</td>
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#### Required Core Courses

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<tbody>
<tr>
<td>JOUR 3725</td>
<td>News Reporting 1</td>
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<tr>
<td>JOUR 2624</td>
<td>Imaging and Design of Media</td>
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<tr>
<td>JOUR 3726</td>
<td>American Journalism</td>
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<tr>
<td>JOUR 3721L</td>
<td>Journalism Workshop</td>
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<tr>
<td>JOUR 3723</td>
<td>Advanced Journalism Editing and Design</td>
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<tr>
<td>JOUR 4860</td>
<td>News Reporting 2</td>
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<tr>
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<tr>
<td>JOUR 4824</td>
<td>Press Law and Ethics</td>
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<tr>
<td>JOUR 4893</td>
<td>Journalism Senior Project</td>
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#### Electives

Select 12 s.h. from the following:

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<thead>
<tr>
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<tbody>
<tr>
<td>JOUR 2605</td>
<td>Journalism as Literature (WR/MG/JS)</td>
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<tr>
<td>JOUR 2632</td>
<td>Introduction to Photojournalism (WR/MG/E/JS)</td>
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<td>JOUR 3716</td>
<td>Magazine Publishing (MG/JS)</td>
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<tr>
<td>JOUR 3717</td>
<td>Editorial and Opinion Writing (WR/E/JS)</td>
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<tr>
<td>JOUR 3720L</td>
<td>Magazine Journalism Workshop (MG/JS)</td>
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<td>JOUR 3722L</td>
<td>Radio News Workshop (WR/E/JS)</td>
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<td>JOUR 3758</td>
<td>Projects in Working Class Reporting (MG/JS)</td>
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<td>JOUR 3759</td>
<td>Sports Journalism (WR/E/JS)</td>
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<td>JOUR 3761</td>
<td>New Media Journalism (WR/E/JS)</td>
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<td>JOUR 3762</td>
<td>Political Reporting (WR/E/JS)</td>
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<td>JOUR 4822</td>
<td>Magazine Writing and Reporting (MG/JS)</td>
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<td>JOUR 4823</td>
<td>In-Depth Reporting (WR/MG/JS)</td>
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<td>Selected Topics in Journalism (WR/MG/E/JS)</td>
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<td>JOUR 4894</td>
<td>Journalism Internship (WR/MG/E/JS repeatable up to 6 s.h.)</td>
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#### Required Support Courses

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<td>CMST 3756</td>
<td>Interviewing</td>
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<td>CMST 4850</td>
<td>Social Media Campaigns</td>
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<td>or CMST 3740</td>
<td>Social Media Communication</td>
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#### Support Required Elective Courses

Select two of the following or any JOUR upper division courses:

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<td>ENGL 3740</td>
<td>Advanced Writing</td>
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<td>ENGL 3743</td>
<td>Professional and Technical Writing</td>
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<td>ENGL 3745</td>
<td>Writing for Online Environments</td>
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<td>ENGL 4849</td>
<td>Professional and Technical Editing</td>
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<td>ENGL 4850</td>
<td>Sociolinguistics</td>
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<td>ENST 2600</td>
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<td>POL 3702</td>
<td>Law and Society</td>
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<td>POL 3714</td>
<td>American Public Opinion</td>
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<td>POL 3722</td>
<td>State and Local Government</td>
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<td>TCOM 1580</td>
<td>Introduction to Telecommunication Studies</td>
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<td>CSIS 1510</td>
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<td>ACCT 2602</td>
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<td>CRJS 2601</td>
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<td>CRJS 2602</td>
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<td>STAT 2601</td>
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#### Minor Requirements (some minors require more than 18 credits)

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<td>Electives (students must complete 39 hours of upper division courses; 37xx and above)</td>
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#### Total Semester Hours

120-122

1 Be sure to choose those that are appropriate for your selected option.  
- WR indicates class suitable for writing/reporting option,  
- MG indicates class suitable for magazine option,  
- E indicates class suitable for electronic option,  
- JS indicates classes suitable for the journalism studies option.

Please see your advisers for help with scheduling.
ENGL 1550 or ENGL 1549 Writing 1 or Writing 1 with Support 3-4
YSU 1500 or SS 1500 or HONR 1500 Success Seminar or Strong Start Success Seminar or Intro to Honors 1-2
MATH 2623 Quantitative Reasoning 3
GE: Lab Science 4

Semester Hours 14-16

Spring
JOUR 3726 American Journalism 3
CMST 1545 Communication Foundations 3
ENGL 1551 Writing 2 3
GE: Natural Science 3
GE: Social & Personal Awareness 3

Semester Hours 16

Year 2
Fall
JOUR Elective (see Journalism Electives list below) 3
Minor course 3
FNGL 1550 Elementary Foreign Language 4
SPA XXXX GER Social & Personal Awareness 3

Semester Hours 15

Summer

Year 3
Fall
JOUR 3723 Advanced Journalism Editing and Design 3
CMST 3756 Interviewing (this is a required support course) 3
JOUR 4860 News Reporting 2 3
Minor Course 3
GE: Arts & Humanities 3

Semester Hours 15

Spring
JOUR 4824 Press Law and Ethics 3
CMST 4850 or CMST 3740 Social Media Campaigns (this is a required support course) or Social Media Communication 3
JOUR Elective Support Course (see Elective Support Courses list below) 3
Upper-division Minor Course 3
GE: Social Science 3

Semester Hours 15

Year 4
Fall
Upper-division JOUR Elective (see Journalism Electives list below; possible internship) 3
JOUR Elective (see Journalism Electives list below) 3
JOUR Elective Support Course (see Elective Support Courses list below) 3
Upper-division Minor Course 3
General Elective 2

Semester Hours 14

Journalism Electives
Select four of the following (or a total of 12 s.h.):

COURSE
JOUR 2605 Journalism as Literature 3
JOUR 2632 Introduction to Photojournalism 3
JOUR 3716 Magazine Publishing 3
JOUR 3717 Editorial and Opinion Writing 3
JOUR 3720L Magazine Journalism Workshop 1
JOUR 3722L Radio News Workshop 3
JOUR 3758 Projects in Working Class Reporting 3
JOUR 3759 Sports Journalism 3
JOUR 3761 New Media Journalism 3
JOUR 3762 Political Reporting 3
JOUR 4822 Magazine Writing and Reporting 3
JOUR 4823 In-Depth Reporting 3
JOUR 4825 Selected Topics in Journalism 3
JOUR 4894 Journalism Internship 3

Semester Hours 16

Elective Support Courses
Select two of the following (or a total of 6 s.h.):

COURSE
ACCT 2602 Financial Accounting 3
CRJS 2601 Policing 3
CRJS 2602 Criminal Courts 3
CMST 2600 Communication Theory 3
ENGL 3740 Advanced Writing 3
ENGL 3743 Professional and Technical Writing 3
ENGL 3745 Writing for Online Environments 3
ENGL 4849 Professional and Technical Editing 3
ENGL 4850 Sociolinguistics 3
POL 3702 Law and Society 3
POL 3714 American Public Opinion 3
POL 3722 State and Local Government 3
STAT 2601 Introductory Statistics 3
TCOM 1580 Introduction to Telecommunication Studies 3

Semester Hours 16

Learning Outcomes
The Communication Department has established the following learning outcomes for students completing the journalism major. Journalism students will demonstrate an understanding of:

• what constitutes news.
• practical applications of First Amendment law.
• strategies for finding and extracting news.
• writing and editing stories for various audiences and media formats.
• principles and practices of ethical and professional news.
# Bachelor of Arts in Journalism, Broadcast and Digital Media Track

The B.A. in Journalism track in broadcast and digital media prepares students for entry-level positions in media production, reporting, and writing. The curriculum offers a blend of courses from journalism and telecommunications to support this goal. Course will focus on writing and reporting, video production, professional practices and legal issues. Students are encouraged to build a strong publication and production portfolio by working for our award-winning campus media outlets which include The Jambar, the *Penguin Review*, the *Yo* magazine (http://www.thejambar.com/category/yo-magazine/), *The Jenny*, Rookery Radi (http://www.rookeryradio.com/), and thejambar.com. Internships and opportunities are available at local and national media outlets. Additionally, Journalism majors on the broadcast and digital media track are encouraged to declare minors that support their specific career objectives, and allow them to develop complementary skills and knowledge (students on this track are prohibited from minoring in telecommunication studies because of the wide overlap in requirements). Students who are interested in pursuing a career in writing or print journalism should explore the B.A. Journalism.

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<td><strong>FIRST YEAR REQUIREMENT - STUDENT SUCCESS</strong></td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or HONR 1500</td>
<td>Intro to Honors</td>
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<td>ENGL 1550</td>
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<td>or ENGL 1549</td>
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<td>Natural Sciences (2 courses, 1 with lab) (6-7 s.h.)</td>
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<td>JOUR 2624</td>
<td>Imaging and Design of Media</td>
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<td>JOUR 3721L</td>
<td>Journalism Workshop</td>
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<td>JOUR 3723</td>
<td>Advanced Journalism Editing and Design</td>
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<td>JOUR 3725</td>
<td>News Reporting 1</td>
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<td>JOUR 3726</td>
<td>American Journalism</td>
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<td>JOUR 4860</td>
<td>News Reporting 2</td>
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<td>JOUR 4824</td>
<td>Press Law and Ethics</td>
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<td>JOUR 4893</td>
<td>Journalism Senior Project</td>
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<td>Scriptwriting for Electronic Media</td>
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<td>or TCOM 3782</td>
<td>Video Production 1</td>
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<td>TCOM 3780</td>
<td>Principles and Practices of Media Announcing</td>
<td>3</td>
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<tr>
<td>or TCOM 3789</td>
<td>Electronic Media Interviewing</td>
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<td>TCOM 3790</td>
<td>Broadcast News Lab</td>
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<td>TCOM 4890</td>
<td>Producing Broadcast News</td>
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</table>

Minor Requirements (some minors require more than 18 credits; assumes 9 hours are upper division)

| Elective (6 s.h. must be upper division) | 9 |

| **Total Semester Hours** | 120-122 |

### Year 1

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<td>ENGL 1550 or ENGL 1549</td>
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<td>TCOM 1580</td>
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### Year 2

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<td>FNGL 1550</td>
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<td>TCOM 2683</td>
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<td>TCOM 2682</td>
</tr>
<tr>
<td>Minor Course</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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### Spring

| JOUR 3721L | Journalism Workshop |
| FNGL 2600 | Intermediate Foreign Language |
| TCOM 3781 | Audio Production or Video Production 1 |
| Minor Course | |
| **GE Social Science** | |
| **Semester Hours** | 16 |

### Year 3

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<td>JOUR 3723</td>
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<tr>
<td>GE Arts &amp; Humanities</td>
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<tr>
<td>JOUR 4860</td>
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<tr>
<td>Minor Class</td>
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<tr>
<td><strong>Semester Hours</strong></td>
</tr>
</tbody>
</table>

### Spring

| JOUR 4824 | Press Law and Ethics |
| TCOM 3790 | Broadcast News Lab |
| GE Natural Science | |
| Upper Level Minor Class | |
| **GE Social Science** | |
| **Semester Hours** | 15 |
Year 4

Fall
GE Social & Personal Awareness 3
TCOM 4890 Producing Broadcast News 3
Upper Level Minor Class 3
General Elective 3
GE Arts & Humanities 3
Semester Hours 15

Spring
JOUR 4893 Journalism Senior Project 3
Upper Level Minor Course 3
GE SPA 3
General Elective 3
General Elective 3
Semester Hours 15
Total Semester Hours 120-122

Learning Outcomes
The Communication Department has established the following learning outcomes for students completing the journalism major. Journalism students will demonstrate an understanding of:

- What constitutes news.
- Practical applications of First Amendment.
- Strategies for finding and extracting new.
- Writing stories for various audiences and media formats.
- The principles and practices of ethical and professional news.

Bachelor of Arts in Journalism, Sports Information and Media Track
The B.A. in Journalism prepares students for positions in media production, reporting, editing and design. There are three tracks for students majoring in journalism, Journalism Studies (JS), broadcast and digital media (BDM), and sports information and media (SIM). The curriculum offers a blend of courses to support this goal. The coursework begins with basic photo, video, writing, reporting and visual literacy skills. These are then followed by courses that focus on design, and advanced reporting and writing projects. Students in the broadcast and digital media track will take several courses in broadcast news and telecommunication. Those in journalism will take a series of electives and interdisciplinary courses, to build skills in interviewing, writing, social media and specialized journalism. Students in Sports Information and Media will take courses in sports journalism and communication.

On-campus outlets for student writing and productions include the Penguin Review, the *yo magazine, The Jenny, Rookery Radio, and thejambar.com. Internships and other writing opportunities are available at local media outlets including local TV, radio and newspapers. The Business Journal, The Vindicator, and the Tribune Chronicle. Additionally, Journalism Studies and Broadcast and Digital Media majors are encouraged to declare minors that support their specific career objectives, such as public relations, political science, telecommunications, or art/design. Sports Information and Media students do not need a minor.

LO 1: Students will be able to produce media to support the messaging of sports teams and athletes.

LO 2: Students will be able to write in a variety of media genres.

LO 3. Students will analyze trends in new media as they relate to the dissemination of messages through mediated channels.

LO 4: Students will interpret, analyze and apply laws and ethics as they relate to media.

COURSE TITLE S.H.
FIRST YEAR REQUIREMENT - SUCCESS SEMINAR
YSU 1500 Success Seminar 1-2
or HONY 1500 Intro to Honors
or SS 1500 Strong Start Success Seminar

General Education Requirements
Core Competencies
ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
Mathematics Requirement (e.g., MATH 2623, STAT 2625) 3

Knowledge Domains
Arts and Humanities 6
Natural Sciences (2 courses, 1 with lab) 7
Social Science 6

HIST 2605 Turning Points in United States History 1
or HIST 2606 Turning Points in United States History 2

Social and Personal Awareness 6
Foreign Language Requirement
FNGL 1550 Elementary Foreign Language 4
FNGL 2600 Intermediate Foreign Language 4

Journalism Requirements
JOUR 2624 Imaging and Design of Media 3
JOUR 3725 News Reporting 1 3
JOUR 3726 American Journalism 3
JOUR 3759 Sports Journalism 3
JOUR 3761 New Media Journalism 3
JOUR 3769 Principles and Practices of Sports Information 3
JOUR 4824 Press Law and Ethics 3
JOUR 4893 Journalism Senior Project 3
JOUR 4899 Sports Information Internship 3

Communication Studies Requirements
CMST 2600 Communication Theory 3
CMST 2630 Social Media Literacy 3
CMST 3717 Intro to Media Relations Campaigns 3
CMST 3740 Social Media Communication 3
CMST 4879 Sports Communication Message Design 3
CMST 5889 Theory of Sports and Communication 3

Telecommunication Studies Requirement
TCOM 1510 Sports Field Production 1 1
TCOM 1570 Introduction to Electronic Sports Media 3

KSS and HIST Requirement
KSS 2699 Sport in American Culture 3
HIST 3723 History of American Sports 3

Mixed Requirements
Pick one 3 s.h. course from each of the following pairs 6

JOUR 3721L Journalism Workshop
CMST 4850 Social Media Campaigns
ADV 3711 Marketing Communications
CMST 3757 Media Relations Writing
Bachelor of Arts in Telecommunication Studies, Media Arts Track

Overview

The media arts track prepares students to produce and deliver content that passes through some medium such as television, radio, or the Internet. For example, on this track, students may study how content created for the Internet and social media (e.g., YouTube) impacts traditional forms of broadcast media such as radio and television. Students learn about early stages of the field as well as contemporary combinations of telecasting through various media outlets. A major in the telecommunication studies-media arts track curriculum provides students with an in-depth knowledge and intellectual challenge in electronic communication. Students receive practical orientation to the skills and techniques of broadcasting. Further, students explore contemporary theories and problems central to mass media, as well as examine new communication media.

From a liberal arts perspective, the telecommunication studies-media arts track curriculum is designed to aid the student in pursuit of careers not only in broadcasting but also in recently expanding avenues of communication such as non-commercial broadcasting, corporate communication, industrial communication, cablecasting, and independent production. Internships are available are regionally based, national and international media organizations.

Possible Careers

- Audio producer, director, editor
- Camera operator
- Content producer
- Digital media producer, director, editor
- On-air host
- Media sales
- Media management
- Multimedia producer
- Radio DJ
- Social media manager
- Video blogger (vlogger)
- Video producer, director, editor

Complementary Minors

- Advertising and Public Relations
- Business
Admission Policy

Students who declare an intent to major in telecommunication studies, whether on the media arts track or sports broadcasting track, will be assigned to the "Telecommunication Studies" (TCOM) category. Upon completion of 15 semester hours while in the Pre-TCOM category, and completion of ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of "A" or "B" in all three), students will be reassigned to the "Telecommunication Studies" (TCOM) category and track of choice (media arts OR sports broadcasting).

Students may transfer to the Pre-TCOM, but not TCOM, category from another program at YSU or from another institution. Students who have completed associate- or bachelor-level degrees also may enter the Pre-TCOM, but not TCOM, category. Upon completion of 15 semester hours while in the Pre-TCOM category, and completion of ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of "A" or "B" in all three), students will be reassigned to the TCOM category.

Admission Policy

Students who have interrupted their attendance at YSU for three consecutive semesters or more will be assigned to the Pre-TCOM category upon return (even if the student was a TCOM major). After completion of 15 semester hours while in the Pre-TCOM category, and completion of ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of "A" or "B" in all three), students will be reassigned to the TCOM category.

COURSE TITLE S.H.

FIRST YEAR REQUIREMENT - STUDENT SUCCESS

YSU 1500 Success Seminar 1-2
or SS 1500 Strong Start Success Seminar
or HONR 1500 Intro to Honors

General Education Requirements

ENGL 1550 Writing 1 3-4
or ENGL 1549 Writing 1 with Support
ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
Mathematics Requirement (e.g., MATH 2623, STAT 2625) 3
Arts and Humanities (6 s.h.) 6
Natural Sciences (2 courses, 1 with lab) (6-7 s.h.) 7
Social Science (6 s.h.) 6
Social and Personal Awareness (6 s.h.) 6
Foreign Language Requirement

Foreign Language 1550 4

Major Requirements

TCOM 1500 Orientation to Telecommunication Studies 1
TCOM 1580 Introduction to Telecommunication Studies 3
TCOM 1581 Telecommunication Technologies 2
TCOM 2682 Scriptwriting for Electronic Media 3
TCOM 2683 Media Operations and Performance 3
TCOM 3780 Principles and Practices of Media Announcing 3
TCOM 3781 Audio Production 3
or TCOM 3782 Video Production 1
TCOM 3783 Telecommunications Regulation 3
TCOM 4878 Theories and Criticisms of Telecommunication 3
TCOM 4897 Seminar in Telecommunication 3
TCOM 4899 Capstone 2

TCOM Electives

Select a minimum of 11 s.h. of TCOM electives.

Minor Requirements (some minors require more than 18 credits) 18

Electives (students must complete 39 hours of upper division courses; 37xx and above) 16

Total Semester Hours 120-122

Year 1

Fall S.H.

YSU 1500 Success Seminar or SS 1500 or HONR 1500 1-2
or Strong Start Success Seminar or Intro to Honors
ENGL 1550 Writing 1 or ENGL 1549 Writing 1 with Support 3-4
MATH 2623 Quantitative Reasoning 3
TCOM 1500 Orientation to Telecommunication Studies 1
TCOM 1580 Introduction to Telecommunication Studies 3
TCOM 1581 Telecommunication Technologies 2

Semester Hours 13-15

Spring

ENGL 1551 Writing 2 3
CMST 1545 Communication Foundations 3
TCOM 2682 Scriptwriting for Electronic Media 3
TCOM 2683 Media Operations and Performance 3
GE Social & Personal Awareness 3

Semester Hours 15

Year 2

Fall

TCOM 3780 Principles and Practices of Media Announcing 3
Minor course 3
NS XXXX GER Natural Science 3
SPA XXXX GER Social Science 3
FNLG 1550 Elementary Foreign Language 4

Semester Hours 16

Spring

TCOM 3781 Audio Production or TCOM 3782 Video Production 1 3
Minor course 3
AH XXXX GER Arts & Humanities 3
SS XXXX GER Social Sciences 3
FNLG 2600 Intermediate Foreign Language 4

Semester Hours 16
Bachelor of Arts in Telecommunication Studies, Sports Broadcasting Track

Overview
The sports broadcasting track was designed to prepare students for the ever-expanding field of sports media. Students on this track have direct access to sports broadcasting opportunities through Youngstown State University Athletics, including NCAA Division I sports, via Horizon League and Missouri Valley Conference (i.e., Penguin football) streams and broadcasts. Students learn the process of preparing content through the pre- and post-production phases as well as evaluation of the content. Courses include Broadcast Sports Producing & Writing, Broadcast Sports Performance, Cross-Platform Sports Broadcasting, Sports Media Production, and Sports Field Production.

The telecommunication studies-sports broadcasting track curriculum is designed to prepare students in pursuit of careers not only in sports media but also in expanding avenues of communication such as cross-platform sports production (i.e., preparing sports content for multiple platforms), media sales and advertising, writing and editing, and independent production. Sports media internships are available at regionally based, national and international media organizations such as ESPN and Fox Sports affiliates and flagship locations.

Possible Careers
- Camera operator
- Digital media producer, director, editor
- On-air host
- Media sales
- Media management
- Multimedia producer
- Public and media relations
- Radio DJ
- Sports journalist, blogger
- Sports media content producer
- Sports media director, editor
- Social media manager, content creator
- Sports TV/Radio show host, producer
- Sports video blogger (vlogger)
- Video producer, director, editor

Complementary Minors
- Advertising and Public Relations
- Business
- Creative Writing
- Digital Media
- Electronic Commerce Tech
- Entrepreneurship
- Graphic Design
- Interactive Design
- Journalism
- Magazine and Specialty Reporting
- Management
- Marketing
- Multimedia and Web Design
- Multimedia Reporting
- Photography
- Professional Writing and Editing
- Social Media Campaigns
- Web Communications

Admission Policy
Students who declare an intent to major in telecommunication studies, whether on the media arts track or sports broadcasting track, will be assigned to the "Pre-Telecommunication" (Pre-TCOM) category. Upon completion of 15 semester hours while in the Pre-TCOM category, and completion of ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of "A" or "B" in all three), students will be reassigned to the "Telecommunication Studies" (TCOM) category and track of choice (media arts OR sports broadcasting).

Students may transfer to the Pre-TCOM, but not TCOM, category from another program at YSU or from another institution. Students who have completed
associate- or bachelor-level degrees also may enter the Pre-TCOM, but not TCOM, category. Upon completion of 15 semester hours while in the Pre-TCOM category, and completion of ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of "A" or "B" in all three), students will be reassigned to the TCOM category.

Students who have interrupted their attendance at YSU for three consecutive semesters or more will be assigned to the Pre-TCOM category. Upon completion of 15 semester hours while in the Pre-TCOM category, and completion of ENGL 1550, TCOM 1570 OR 1580, and TCOM 1581 (with grades of "A" or "B" in all three), students will be reassigned to the TCOM category.

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<td>TCOM 1570</td>
<td>Introduction to Electronic Sports Media</td>
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<td>TCOM 4899</td>
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<td>2</td>
</tr>
<tr>
<td>TCOM Electives</td>
<td></td>
<td>6</td>
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<tr>
<td>select a minimum of 6 s.h. of TCOM Electives.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minor Requirements (some minors require more than 12 credits)</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Electives to reach 120 hrs (students must complete 39 hours of upper division courses; 37xx and above)</td>
<td></td>
<td>9</td>
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<tr>
<td>Total Semester Hours</td>
<td></td>
<td>120-122</td>
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</table>

**Year 1**

<table>
<thead>
<tr>
<th>Fall</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>YSU 1500 or SS 1500 or HONR 1500</td>
<td>Success Seminar or Strong Start Success Seminar or Intro to Honors</td>
</tr>
<tr>
<td>ENGL 1550 or ENGL 1549</td>
<td>Writing 1 or Writing 1 with Support</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Quantitative Reasoning</td>
</tr>
<tr>
<td>TCOM 1500</td>
<td>Orientation to Telecommunication Studies</td>
</tr>
<tr>
<td>TCOM 1570</td>
<td>Introduction to Electronic Sports Media</td>
</tr>
<tr>
<td>TCOM 1581</td>
<td>Telecommunication Technologies</td>
</tr>
<tr>
<td>Semester Hours</td>
<td>13-15</td>
</tr>
</tbody>
</table>

**Spring**

| TCOM 3793 | Broadcast Sports Performance |
| Minor Course | 3 |
| NS XXXX GER Natural Science | 3 |
| FNLG 1550 | Elementary Foreign Language |
| TCOM 2610 | Sports Field Production 2 |
| Semester Hours | 14 |

**Year 2**

<table>
<thead>
<tr>
<th>Fall</th>
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</thead>
<tbody>
<tr>
<td>TCOM 3792</td>
<td>Broadcast Sports Producing and Writing</td>
</tr>
<tr>
<td>Minor course</td>
<td>3</td>
</tr>
<tr>
<td>AH XXXX GER Arts &amp; Humanities</td>
<td>3</td>
</tr>
<tr>
<td>SS XXXX GER Social Sciences</td>
<td>3</td>
</tr>
<tr>
<td>FNLG 2600</td>
<td>Intermediate Foreign Language</td>
</tr>
<tr>
<td>Semester Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

**Spring**

| TCOM 3794 | Cross-platform Sports Broadcasting |
| TCOM 3783 | Telecommunications Regulation |
| Minor course | 3 |
| SPA XXXX GER Social & Personal Awareness | 3 |
| General Elective | 2 |
| TCOM 3710 | Sports Field Production 3 |
| Semester Hours | 15 |

**Year 3**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>TCOM 4887</td>
<td>Theories and Criticisms of Telecommunication</td>
</tr>
<tr>
<td>TCOM 3795</td>
<td>Sports Media Production 1</td>
</tr>
<tr>
<td>TCOM Elective</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division Minor course</td>
<td>3</td>
</tr>
<tr>
<td>GER Social Science</td>
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<td>Semester Hours</td>
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**Year 4**

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<tbody>
<tr>
<td>TCOM 4889</td>
<td>Broadcast Sports Internship</td>
</tr>
<tr>
<td>Upper-division Minor course</td>
<td>3</td>
</tr>
<tr>
<td>TCOM Elective</td>
<td>3</td>
</tr>
<tr>
<td>Upper-division General Elective</td>
<td>3</td>
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<tr>
<td>COURSE</td>
<td>TITLE</td>
</tr>
<tr>
<td>--------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>CMST 2600</td>
<td>Communication Theory</td>
</tr>
<tr>
<td>CMST 2655</td>
<td>Communication in Groups and Organizations</td>
</tr>
<tr>
<td>CMST 2610</td>
<td>Intercultural Communication</td>
</tr>
<tr>
<td>or CMST 2656</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>CMST 4859</td>
<td>Organizational Cultures</td>
</tr>
<tr>
<td>CMST 5852</td>
<td>Conflict Management and Negotiation</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>CMST 3750</td>
<td>Gender Communication</td>
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<tr>
<td>CMST 3756</td>
<td>Interviewing</td>
</tr>
<tr>
<td>CMST 4855</td>
<td>Interpersonal Communication Relationships</td>
</tr>
</tbody>
</table>

Total Semester Hours 18

**Minor in Interpersonal Communication**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 2600</td>
<td>Communication Theory</td>
<td>3</td>
</tr>
<tr>
<td>CMST 2630</td>
<td>Social Media Literacy</td>
<td>3</td>
</tr>
<tr>
<td>CMST 2656</td>
<td>Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 3750</td>
<td>Gender Communication</td>
<td>3</td>
</tr>
<tr>
<td>CMST 4855</td>
<td>Interpersonal Communication Relationships</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 18

**Minor in Journalism Studies**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>JOUR 2624</td>
<td>Imaging and Design of Media</td>
<td>3</td>
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<tr>
<td>JOUR 3725</td>
<td>News Reporting 1</td>
<td>3</td>
</tr>
<tr>
<td>or JOUR 2622</td>
<td></td>
<td></td>
</tr>
<tr>
<td>JOUR 4824</td>
<td>Press Law and Ethics</td>
<td>3</td>
</tr>
</tbody>
</table>

Select three of the following courses (9 s.h.) at least 6 s.h. must be 3700 level or above.

| JOUR 2603 | Journalism Ethics and Social Responsibilities | 3    |
| JOUR 2605 | Journalism as Literature                     | 3    |
| JOUR 3716 | Magazine Publishing                          | 3    |
| JOUR 3717 | Editorial and Opinion Writing                | 3    |
| JOUR 3721L | Journalism Workshop                         |      |
| JOUR 3722L | Radio News Workshop                         |      |
| JOUR 3723 | Advanced Journalism Editing and Design       | 3    |
| JOUR 3726 | American Journalism                          | 3    |
| JOUR 3758 | Projects in Working Class Reporting          | 3    |
| JOUR 3759 | Sports Journalism                            | 3    |
| JOUR 3761 | New Media Journalism                         | 3    |
| JOUR 3762 | Political Reporting                          | 3    |
| JOUR 4822 | Magazine Writing and Reporting               | 3    |
| JOUR 4823 | In-Depth Reporting                           | 3    |
| JOUR 4825 | Selected Topics in Journalism                | 3    |
| JOUR 4860 | News Reporting 2                             | 3    |
| JOUR 4894 | Journalism Internship                        | 3    |

Total Semester Hours 18

**Minor in Magazine and Specialty Reporting**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOUR 2622</td>
<td>Imaging and Design of Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 2624</td>
<td>Imaging and Design of Media</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3716</td>
<td>Magazine Publishing</td>
<td>3</td>
</tr>
<tr>
<td>JOUR 3720L</td>
<td>Magazine Journalism Workshop</td>
<td>1</td>
</tr>
</tbody>
</table>

Select three of the following courses (9 s.h.)

| JOUR 3723 | Advanced Journalism Editing and Design      | 3    |
| JOUR 3759 | Sports Journalism                           | 3    |
| JOUR 3761 | New Media Journalism                        | 3    |

Total Semester Hours 18
Students interested in developing mass communication skills should consider the telecommunication studies minor. The minor focuses on different areas of mass media studies and will help students develop an introductory skill set that would serve as a complementary minor to many different majors. These skills are in high demand by employers and recruiters in a variety of fields. To complete the minor in telecommunication studies, a student must successfully complete 20 s.h. in:

**Minor in Telecommunication Studies**

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
TCOM 1580 | Introduction to Telecommunication Studies | 3
TCOM 1581 | Telecommunication Technologies | 2
TCOM 2682 | Scriptwriting for Electronic Media | 3
TCOM 2683 | Media Operations and Performance | 3
Select three of the following: | | 9
TCOM 3783 | Telecommunications Regulation |
TCOM 3784 | Electronic Media Content Strategies |
TCOM 3791 | Electronic Media Sales and Promotion |
TCOM 4881 | Telecommunication Management |
TCOM 4885 | Developments in Telecommunication Media |
TCOM 4886 | Audience and Market Measure |

**Total Semester Hours** | **19**

**Minor in Social Media Campaigns**

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
CMST 2600 | Communication Theory | 3
JOUR 2624 | Imaging and Design of Media | 3
CMST 2630 | Social Media Literacy | 3
Select three of the following: | | 9
CMST 3717 | Intro to Media Relations Campaigns |
CMST 3740 | Social Media Communication |
CMST 3757 | Media Relations Writing |
CMST 4850 | Social Media Campaigns |
CMST 4851 | New Communication Media |

**Total Semester Hours** | **18**

**Minor in Sports Information**

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
TCOM 1510 | Sports Field Production 1 | 1
CMST 2600 | Communication Theory | 3
or CMST 2630 | Social Media Literacy |
CMST 3717 | Intro to Media Relations Campaigns | 3
CMST 3740 | Social Media Communication | 3
or CMST 3757 | Media Relations Writing |
JOUR 3725 | News Reporting 1 | 3
JOUR 3721L | Journalism Workshop | 3
JOUR 3759 | Sports Journalism | 3
JOUR 4824 | Press Law and Ethics | 3

**Total Semester Hours** | **22**

**Associate of Arts in Business Administration**

The Williamson College of Business Administration offers an Associate of Arts in Business Administration that incorporates some general education courses, the business tool courses, and some upper level business courses. This degree is often pursued by individuals already in the workforce wanting to enhance their knowledge and skills in the field of business, often leading to promotion and/or salary increase. The courses taken in the Associate of Arts in Business Administration can all be applied to the Bachelor of Science in Business Administration.

**CAREER OPPORTUNITIES**

An Associate degree in business can prepare students for some entry-level jobs in retail, office administration, bookkeeping, and trade work. The most common careers for individuals earning an AABA degree is in the area of office administration and support. Office administration assistants can be found in a wide array of organizations including corporations, small business centers, government agencies, and nonprofit organizations.

**STUDENT EXPERIENCES**

Students enrolled in the Associate of Arts in Business Administration have the opportunity to build their knowledge and leadership skills in their field through various student leadership organizations including the American Marketing Association, Advertising Club, Pi Sigma Epsilon, Society for Human Resource Management (SHRM), Enactus, and the Student Nonprofit Leadership Organization.

**Associate of Technical Study - Business Technology**

**COURSE** | **TITLE** | **S.H.**
--- | --- | ---
BUS 1500 | Exploring Business | 1
or BUS 2600 | Business Applications of Microsoft Excel | 3
or MATH 1552 | Applied Mathematics for Management | 4
or MATH 2610 | Principles 1: Microeconomics | 3

**Total Semester Hours** | **20**
### Associate of Technical Study in Business Technology

The Associate of Technical Study - Business Technology program is designed to provide an opportunity for individuals who have completed documented vocational or technical training to earn academic credit for the training and combine this with academic coursework at the college level to earn an Associate of Technical Study degree.

Students must be enrolled in or have successfully completed a course of technical training that has already been evaluated by YSU. Students may be awarded no more than 30 hours for previous documented technical training.

### BUSINESS TOOL COURSES

To enroll in upper level business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

#### GENERAL EDUCATION REQUIREMENTS

### BUSINESS CORE COURSES

To enroll in upper level business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses and have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

#### BUSINESS TOOL COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1510</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management</td>
<td>4</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
<td>14-16</td>
</tr>
</tbody>
</table>

### FIRST YEAR REQUIREMENT - STUDENT SUCCESS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 2600</td>
<td>Business Applications of Microsoft Excel</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1510</td>
<td>College Algebra</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 2628</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3742</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business 1</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3702</td>
<td>Business Professionalism</td>
<td>1</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3742</td>
<td>Statistics for Business and Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>GE: Lab Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td>16</td>
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### Year 1

#### Fall

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<tr>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1510</td>
<td>College Algebra</td>
<td>4</td>
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<tr>
<td>PHIL 2628</td>
<td>Business Ethics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1: Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2602</td>
<td>Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS 2600</td>
<td>Business Applications of Microsoft Excel</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2603</td>
<td>Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3702</td>
<td>Business Professionalism</td>
<td>1</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3742</td>
<td>Statistics for Business and Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>GE: Lab Science</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
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<td>16</td>
</tr>
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</table>

### Spring

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 3702</td>
<td>Business Professionalism</td>
<td>1</td>
</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3788</td>
<td>Statistics for Business and Economics 1</td>
<td>3</td>
</tr>
<tr>
<td>GE: Natural Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>GE Arts &amp; Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td>16</td>
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### Year 2

#### Fall

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
</tr>
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<tr>
<td>GE Arts &amp; Humanities</td>
<td></td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td>16</td>
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### Spring

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 2</td>
<td>3</td>
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<tr>
<td>or ENGL 1549</td>
<td>or Writing 1 with Support</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1510</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BUS 1500</td>
<td>Exploring Business</td>
<td>3</td>
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<td>Communication Foundations</td>
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</tr>
<tr>
<td></td>
<td><strong>Total Semester Hours</strong></td>
<td>14-16</td>
</tr>
</tbody>
</table>

### Total Semester Hours

61-63
Abroad programs allow a student to live in a foreign country and attend a wide variety of semester long international study experiences. Youngstown State University's International Studies and Programs offers a range of destinations such as Italy, Ireland, The Czech Republic and China. Students may participate in at least ONE Global Learning Experience for credit. To enroll in upper level business courses student must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses and have a minimum 2.5 overall GPA.

### Global Learning Experiences

The Williamson Center for International Business offers short-term study trips lasting approximately 10 days. These are typically offered during class break periods (winter and spring break). WCBA short-term trips have included destinations such as Italy, Ireland, The Czech Republic and China. Students receive three credit hours of course work that can be applied to their degree requirements.

Youngstown State University's International Studies and Programs offers a wide variety of semester long international study experiences. Study Abroad programs allow a student to live in a foreign country and attend a foreign university. Students are immersed in the culture through the learning experience. WCBA students have studied for a semester at various locations around the world including Italy, Africa, Australia, England, Brazil and Germany.

### Student Leadership Opportunities

Students studying International Business at Youngstown State University have the opportunity to build their knowledge and leadership skills through various student leadership organizations such as the International Business Organization, Beta Gamma Sigma, Enactus, Student Investment Fund, Student Leadership Council, and Student Nonprofit Leadership Organization.

### BSBA International Business (ICP)

WCBA Student Services

(330) 941-2376

**INTERNATIONAL BUSINESS (ICP)**

The Williamson College of Business Administration offers an Individualized Curriculum Program (ICP) in International Business. This major utilizes the core functional areas (management, marketing, finance, accounting, etc.) of any business or organization to conduct business internationally. Virtually all businesses deal with international suppliers, buyers, or other parties. The International Business major allows students the education and experiences of conducting business with organizations from multiple countries around the globe. This program prepares students to enter a global market and leads to jobs such as import/export agent, foreign currency investment advisor, foreign sales representative, and international management consultant.

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### COURSE | TITLE | S.H.
--- | --- | ---
**GENERAL EDUCATION**

**Core Competencies**

ENGL 1550 | Writing 1 | 3-4
or ENGL 1549 | Writing 1 with Support |

ENGL 1551 | Writing 2 | 3
CMST 1545 | Communication Foundations | 3

Mathematics Requirements

Knowledge Domains

Arts & Humanities | 3 SH met through PHIL 2628 required for major |

PHIL 2628 | Business Ethics | 3

**Arts & Humanities Elective**

**Natural Sciences**

One science course must include a lab

**Social Sciences**

Met through ECON 2610 & ECON 2630 (see business tool)

**Social and Personal Awareness**

3 SH met through REL 2601 required for major

REL 2601 | Introduction to World Religions | 3

Social & Personal Awareness Elective | 3

**BUSINESS TOOL COURSES**

Business Tool courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

BUS 1500 | Exploring Business | 3

BUS 2600 | Business Applications of Microsoft Excel | 3

MATH 1552 | Applied Mathematics for Management | 4

ECON 2610 | Principles 1: Microeconomics | 3

ECON 2630 | Principles 2: Macroeconomics | 3

MGT 2604 | Legal Environment of Business 1 | 3

ACCT 2602 | Financial Accounting | 3

ACCT 2603 | Managerial Accounting | 3

ENGL 3742 | Business Writing | 3

ECON 3788 | Statistics for Business and Economics 1 | 3

**BUSINESS CORE COURSES**

To enroll in upper level business courses student must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses and have a minimum 2.5 overall GPA.

Upper level business courses must be completed with the grade of a "C" or higher and cannot be taken credit/no credit.

BUS 3715 | Principles of International Business | 3

BUS 3700 | Business Analytics | 3

FIN 3720 | Business Finance | 3

MKTG 3702 | Business Professionalism | 1

MKTG 3703 | Marketing Concepts and Practice | 3

MGT 3725 | Fundamentals of Management | 3

MGT 3761 | Management Information Systems | 3

MGT 3789 | Operations Management | 3

MGT 4850 | Strategic Management and Leadership | 3

**INTERNATIONAL BUSINESS CORE COURSES**

Select 12 SH from the following:

International Business majors are encouraged to participate in at least ONE Global Learning Experience for credit.

BUS 4860 | International Business Internship |

BUS 4875 | International Business Field Study Tour |

ECON 5811 | International Trade |

MKTG 4842O | Special Topics: Ohio Export Program |

BUS 4881B | Ohio Export Internship |

ECON 5812 | International Finance |

FIN 4839 | International Accounting and Finance |

MGT 3755 | Managing Workplace Diversity |

MGT 4820 | Supply Chain Management |

MKTG 4845 | International Marketing |

MKTG 4846 | Marketing Channels and Logistics |

MKTG 4851 | Services Marketing |

**FUNCTIONAL CORE REQUIREMENTS**

Select 12 SH from the following:

Select 12 SH from the following:

Select 6 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG) or upper level support courses (CMST, CMST 1545, MATH 1552)

**NON-BUSINESS COURSES**

Select 6 SH of upper level business courses (ACCT, ADV, BUS, ENT, FIN, MGT, MKTG) or upper level support courses (CMST, CMST 1545, MATH 1552)

**Total Semester Hours**

120-121
Certificate in Entrepreneurship

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</tr>
<tr>
<td>ENGL 1550</td>
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<tr>
<td>or ENGL 1549</td>
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<tr>
<td>YSU 1500</td>
<td>Success Seminar</td>
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<tr>
<td>or SS 1500</td>
<td>or Strong Start Success Seminar</td>
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<td>or HONR 1500</td>
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<tr>
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<td>CMST 1545</td>
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<td>Business Upper Level Course</td>
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<td>Functional Core Course</td>
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<td>MGT 3761</td>
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<tr>
<td>Functional Core Course</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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</table>

Total Semester Hours: **118-120**

To enroll in upper level business courses students must have successfully completed ENGL 1550, ENGL 1551, PHIL 2628, CMST 1545, all Business Tool courses AND have a minimum 2.5 overall GPA.

Certificate in Entrepreneurship

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<th>Title</th>
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<tr>
<td>International Business Core Course</td>
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<td>Functional Core Course</td>
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<td>3</td>
</tr>
<tr>
<td>Business Upper Level Business Course</td>
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<td>3</td>
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<tr>
<td>Non-Business Elective</td>
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<td>3</td>
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<tr>
<td><strong>Semester Hours</strong></td>
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<td><strong>15</strong></td>
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</tbody>
</table>

ENGL 1550, ENGL 1551, Business Tool and upper level business courses must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

Certificate in Nonprofit Leadership

Learning Outcomes

- Evaluate the management of regional nonprofit organizations through the use of case studies.
- Analyze the use of financial information in the management of a nonprofit organization.
- Apply the important role fundraising plays in a nonprofit organization and the various revenue sources sought by nonprofit organizations.
• Understanding of societal needs and how a nonprofit organization meets those needs on a local, national, and/or global level.
• Understanding of basic nonprofit management principles including strategic planning, human resource planning, risk management, and the role of marketing/communications.
• Explore paid and volunteer positions available in the nonprofit sector.
• Create a professional network of nonprofit professionals regionally and beyond.

The Certificate in Nonprofit Leadership prepares students for an entry-level position in a nonprofit organization. The following courses are required for the Certificate in Nonprofit Leadership:

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
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<tbody>
<tr>
<td>ADV 3710</td>
<td>Basic Public Relations</td>
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<tr>
<td>BUS 3720</td>
<td>Nonprofit Leadership</td>
<td>3</td>
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<tr>
<td>BUS 3740</td>
<td>Nonprofit Community Service 1</td>
<td>1</td>
</tr>
<tr>
<td>BUS 3780</td>
<td>Financial Management and Fundraising for Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
<td>3</td>
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</table>

Total Semester Hours 13

Students interested in declaring a certificate in Nonprofit Leadership need to complete an Intra University Transfer Request form with their academic advisor. Students must meet all course prerequisites to enroll in WCBA courses, including a minimum 2.5 overall GPA for upper level business courses. WCBA courses must be completed with the grade of a “C” or higher and cannot be taken credit/no credit.

For more information contact Laura Dewberry (ljdewberry@ysu.edu), Director, Center for Nonprofit Leadership

**Minor in Nonprofit Leadership**

The Nonprofit Leadership minor is geared to any YSU student seeking a four-year degree who is interested in beginning a career in the nonprofit sector and/or serving the community. The minor in Nonprofit Leadership can be earned through successful completion of the following courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 3720</td>
<td>Nonprofit Leadership</td>
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<tr>
<td>BUS 3780</td>
<td>Financial Management and Fundraising for Nonprofit Organizations</td>
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</tr>
<tr>
<td>ADV 3710</td>
<td>Basic Public Relations</td>
<td>3</td>
</tr>
<tr>
<td>MGT 3755</td>
<td>Managing Workplace Diversity</td>
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<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management</td>
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<tr>
<td>BUS 3740</td>
<td>Nonprofit Community Service 1</td>
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<tr>
<td>BUS 4840</td>
<td>Nonprofit Leadership Internship</td>
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<tr>
<td>BUS 4841</td>
<td>Nonprofit Leadership Seminar</td>
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</table>

Total Semester Hours 20

All students seeking the Nonprofit Leadership minor must complete a 225 hour internship in a regional nonprofit organization.

Academic credit is given for the internship through enrollment in BUS 4840 and BUS 4841 (listed above). A student can enroll in these two courses during the fall, spring or summer semester.

**Minor in International Business**

Youngstown State University students are invited to enhance their educational experience with a minor in International Business. International Business studies activities involve cross border transactions of goods, services and resources between two or more nations. A minor in International Business can be met through successful completion of the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 3715</td>
<td>Principles of International Business</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3703</td>
<td>Financial Accounting</td>
<td>3</td>
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<td>MGT 3703</td>
<td>Marketing Concepts and Practice</td>
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<td>ACCT 4503</td>
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<td>BUS 4875</td>
<td>International Business Field Study Tour</td>
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<td>BUS 4888</td>
<td>The International Business Consulting Practicum</td>
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<tr>
<td>MKTG 3709</td>
<td>Retail Marketing</td>
<td>3</td>
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<tr>
<td>MKTG 4851</td>
<td>Services Marketing</td>
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</tr>
<tr>
<td>MKTG 4849</td>
<td>Export Strategy</td>
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</table>

Total Semester Hours 18

**Minor in Business (for Non-Business Major)**

Youngstown State University students are invited to enhance their educational experience with a minor in Business. The minor can be met through successful completion of the following requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
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<tr>
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<td>MGT 2604</td>
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<td>MKTG 4851</td>
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<tr>
<td>MKTG 4849</td>
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</table>

Total Semester Hours 18

NOTE: Students interested in declaring a minor in International Business need to complete an Intra University Transfer Request form with their academic advisor. Students pursuing a WCBA minor must meet all course prerequisites to enroll in a WCBA course, including a minimum overall GPA of a 2.5 for upper division business courses. WCBA minor courses must be completed with the grade “C” or higher and cannot be taken credit/no credit.

**The Entrepreneurship Center**

**THE ENTREPRENEURSHIP CENTER**

Contact: Dr. Bruce Keillor
bdkillor@ysu.edu

The Entrepreneurship Center supports students at YSU interested in entrepreneurship. Through the Entrepreneurship Center, students can participate in competitions, receive support to pursue their entrepreneurial dream, network with entrepreneurs, and participate in the professional
Center for Nonprofit Leadership

Contact: Laura Dewberry
ldewberry@ysu.edu

The Center for Nonprofit Leadership, housed in the Williamson College of Business Administration, provides academic programming and professional development experiences for students interested in pursuing a career in the nonprofit sector and/or serving in community leadership positions. The Center offers a certificate (p. 608) and minor (p. 609) in Nonprofit Leadership. Both can be combined with any major on campus. The nonprofit sector offers employment opportunities in a variety of professional disciplines as well as the opportunity to "make a living, making a difference."

Also available through the Center for Nonprofit Leadership is the Student Nonprofit Leadership Organization (SNLO). SNLO is an organization for currently-enrolled students pursuing a baccalaureate degree. The organization provides professional nonprofit management experiences through site visits, community service projects, and consulting projects.

For more information, visit the Center for Nonprofit Leadership. (https://ysu.edu/academics/williamson-college-business-administration/centers/nonprofit-leadership/)

Center of Excellence in International Business

Contact: Dean Betty Jo Licata
bjlicata@ysu.edu

The Williamson College of Business Administration (WCBA) Center of Excellence in International Business integrates the strong and varied international business activities of the Williamson College of Business Administration, the Williamson Center for International Business (WCIB), the Ohio Small Business Development Center, and the International Trade Network to accelerate the attainment of goals related to international business education, research in international business, and regional economic development.

The goals of the WCBA Center of Excellence in International Business (CEIB) are designed to advance our work in teaching, scholarship, and outreach services and bring increased impact through the integration of global business issues across the curriculum and in the business community.

For more information, visit the Center of Excellence in International Business (http://www.ysu.edu/academics/williamson-college-business-administration/centers/).

The Ohio Small Business Development Center at Youngstown State University

The Ohio Small Business Development Center (SBDC) and Export Assistance Network (EAN) at Youngstown State University

Contacts:
Patricia Veisz, Director, Small Business Development Center, pkveisz@ysu.edu
Mousa Kassis, Director, Export Assistance Network, mhkassis@ysu.edu

For over thirty years, the Ohio Small Business Development Center at YSU has accelerated business growth, helped to create jobs and contributed to the economy by providing consulting and training to existing companies and new start-ups. Through its Export Assistance Network, the Center also helps companies with initiating or expanding international trade and exporting opportunities to compete in the global marketplace.

The SBDC leverages its expertise and network of resources through student interns & graduate assistants working at the Center and student/faculty class projects in the Williamson College of Business Administration. The SBDC and EAN are among the premier economic development agencies in the area, and offer services that include:

- strategic business planning
- financial modeling & analysis
- cash flow forecasting
- strategic sales & market planning
- loan proposal development
- export and international trade consulting
- customized domestic & international trade market research
- business & exporting seminars

The SBDC is partially funded through the U.S. Small Business Administration and the Ohio Development Services Agency, and is part of a network of Centers throughout the country.

For more information, visit: The Ohio Small Business Development Center and Export Assistance Network at Youngstown State University.

The Procurement Technical Assistance Center (PTAC) at Youngstown State University

Contact:
Joseph Scott, Director, Procurement Technical Assistance Center, jmscott01@ysu.edu

The Ohio Procurement Technical Assistance Center (PTAC) at Youngstown State University supports the economic growth of existing businesses entering the local, state, and federal government contracting markets, by providing consulting services and training programs. The PTAC prides itself on connecting companies in Trumbull, Mahoning and Columbiana counties with significant business opportunities in government procurement.

The PTAC leverages its expertise and network of resources through student interns & graduate assistants working at the Center, and student/faculty class projects in the Williamson College of Business Administration. The PTAC is among the premier economic development agencies in the area, located in collaboration with the Ohio Small Business Development Center (SBDC) and Export Assistance Network (EAN) (https://catalog.ysu.edu/undergraduate/colleges-programs/college-business-administration/ohio-small-business-development-center-ysu/) at Youngstown State University. PTAC services include:

- Determining Your Company’s Suitability for Government Contracting
- Securing Necessary Entity Registrations & Certification Eligibility
- Developing Capability Statements
- Identifying Bid Opportunities
- Troubleshooting Contract Performance Issues
- Providing SBIR/STTR Assistance

The PTAC is partially funded through a cooperative agreement with the U.S. Defense Logistics Agency, the Ohio Development Services Agency and
Youngstown State University through the Williamson College of Business Administration. It is part of a network of Centers throughout the country.
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