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GRADUATE CATALOG

Youngstown State University Catalog
Graduate Edition
2021-2022

Effective August 2021
Youngstown, Ohio
Volume 88

College of Graduate Studies
Coffelt Hall
One University Plaza
Youngstown, OH 44555

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Fax: (330) 941-1580
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Salvatore A. Sanders, Ph.D.
Dean of Graduate Studies and Assistant Provost for Cyberlearning

General Information

About the Catalog

Purpose/Disclaimer

The Youngstown State University Catalog is the official source of undergraduate and graduate programs, courses, academic policies and special programs. The catalog should be used as a guide in conjunction with the student’s academic advisor in ensuring that the necessary requirements are met for graduation. Every effort has been made to ensure accuracy at the time of publication.

The online catalog contains the most current information. Sections of the online catalog may be printed as needed. Archived versions of catalogs (PDF format) are also available. Students have the responsibility to become familiar with catalog content as they pursue their educational goals.

Throughout the site there are hyperlinks to other information resources at Youngstown State University. The information contained in these links is not a part of the official University Catalog. While every effort is made to provide accurate and current information, Youngstown State University reserves the right to make changes at any time with respect to policies, curricula, graduation requirements, courses, services provided or other matters addressed in this publication and to make any changes retroactive for students currently enrolled.

Catalog Rights

Degree candidates are responsible for meeting university graduation requirements stated in the Youngstown State University Catalog for the academic year in which they are admitted to Youngstown State University unless a student changes his or her major. These graduation requirements are known as catalog rights. Colleges reserve the right to alter the content of courses, add and delete courses, and change required curricula to comply with accreditation, licensure, or state or federal regulations. These changes may necessitate students update to a more recent Catalog. It is the student’s responsibility to remain informed about such changes through regular interaction with their academic advisor in monitoring progress towards graduation. No university official can relieve students of this responsibility.

Students may opt to update their catalog year to a more recent Catalog, in doing so students must comply with all requirements therein.

Students who interrupt their enrollment in the university for one full academic year or longer, consecutively, including summer, must meet the university graduation requirements of the catalog in effect when they return.

In all instances, students who return to Youngstown State University after enrolling at another college or university (except with transient or cross-registration permission) must follow the university graduation requirements of the catalog in effect at the time of their readmission. Course Numbering System, Abbreviations, and Reference Marks

Course Numbering System, Abbreviations, and Reference Marks

Courses listed in this catalog are of two types.

• Courses in the 5800 series are upper-division undergraduate courses in which graduate students may enroll for graduate credit with the approval of an advisor.
• Courses in the 6900- and above series are graduate-level courses normally open only to graduate students but which undergraduates may elect under conditions outlined in Graduate Courses for Undergraduates. Courses in the 8100 series are doctoral-level courses.
• The abbreviation s.h. at the end of a course description stands for “semester hours of credit.” Thus, credit for a three-hour, two-semester course is indicated by the notation 3+3 s.h., meaning three semester hours of credit each semester.
• Prereq. stands for “prerequisite.”
• Comma. Ordinarily, a comma between numbers (e.g., 6907, 6908) indicates that the course extends throughout the year, but that credit toward graduation is given for each course individually.
• En dash. An en dash between numbers (e.g., 6907–6908) indicates that credit is not given toward graduation for the work of the first semester until the work of the second semester is completed, except when special permission is granted by the chair of the department in which the course is given. The first semester of such a course is prerequisite to the second.

Effective: Fall 2021 - Summer 2022

About the University

About The College of Graduate Studies

Advance your degree, advance your career.

YSU’s faculty is highly qualified and successful in research, scholarly and creative works. Our programs offer the latest developments in research and technology. Most importantly the college highly values teaching. This means that the focus is on you and your professional development. Graduate programs are designed to provide you with growth in both theory and practice. Field experiences are available and encouraged. In addition there are many opportunities engage in research, scholarship and creative works with faculty members.

Our graduate faculty members are accessible both in and out of the classroom. This provides you with the professional and personal interaction needed to develop your potential in addition to increasing your career mobility. Whether you have a specific career path in mind, or are seeking broader professional growth, you’ll find solid educational value at Youngstown State University. Pursue your graduate education here at YSU. You’ll find high quality graduate education at our remarkable university.
# Academic Policies, Rights, and Responsibilities

## Academic Calendar

### Fall 2021

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<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>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 for 100% refund - second 8-weeks</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>
</tbody>
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### Spring 2022

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>Dec. 23</td>
<td>Thurs.</td>
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<td>Legal holiday – University closed</td>
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<td>Dec. 24</td>
<td>Fri.</td>
<td></td>
<td>Legal holiday – University closed</td>
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<tr>
<td>Jan. 3</td>
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<td>Legal holiday – University closed</td>
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<td>Jan. 10</td>
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<td></td>
<td>Classes begin – full term and first 8-weeks</td>
</tr>
<tr>
<td>Jan. 13</td>
<td>Thurs.</td>
<td></td>
<td>Last day to add classes or change grading option – first 8-weeks</td>
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<tr>
<td>Jan. 16</td>
<td>Sun.</td>
<td></td>
<td>Last day for 100% refund – first 8-weeks</td>
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<tr>
<td>Jan. 17</td>
<td>Mon.</td>
<td></td>
<td>Legal holiday – University closed</td>
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<tr>
<td>Jan. 18</td>
<td>Tues.</td>
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<td>Last day to add classes or change grading option – full term</td>
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<tr>
<td>Jan. 23</td>
<td>Sun.</td>
<td></td>
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<td>Feb. 11</td>
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<td>Last day to apply for spring term graduation</td>
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<td>Mar. 7</td>
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<td>Mar. 13</td>
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<td>Feb. 18</td>
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<td></td>
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<td>Day</td>
<td>Time</td>
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<tr>
<td>Mar. 23</td>
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<td>May 7</td>
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<td></td>
<td>Final examinations end</td>
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<tr>
<td>May 7</td>
<td>Sat.</td>
<td></td>
<td>Classes end – full term, second 8-weeks</td>
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<tr>
<td>May 7</td>
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<td>Classes begin – full term, first 7-week</td>
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<td>Last Day to add classes or change grading option – first 7-week</td>
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<td>May 19</td>
<td>Thurs.</td>
<td></td>
<td>Last day to add classes or change grading option – full term</td>
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<td>May 22</td>
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<td>Last day for 100% refund – first 7-weeks</td>
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<td>May 29</td>
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<td>Last day for 100% refund – full term</td>
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<td>May 30</td>
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<td>Legal holiday – University closed</td>
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<td>June 12</td>
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<td>Last day to withdraw with a grade of 'W' – first 7-weeks</td>
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<td>June 20</td>
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<td>Classes end – first 7-weeks (final exams are given during last class session)</td>
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<td>July 5</td>
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<tr>
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<td>Last day for 100% refund - Second 7-Weeks</td>
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<tr>
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<td></td>
<td>Last day to withdraw with a grade of 'W' – full summer term</td>
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### Accelerated Online Program - Fall 2021

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<th>Event</th>
</tr>
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<td>Aug. 1</td>
<td>Mon.</td>
<td></td>
<td>Last day to withdraw with a grade of 'W' – second 7-weeks</td>
</tr>
<tr>
<td>Aug. 20</td>
<td>Sat.</td>
<td></td>
<td>Full Term, second 7-weeks (final exams are given during last class session)</td>
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</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
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<tr>
<td>Aug. 30</td>
<td>Mon.</td>
<td></td>
<td>First 7-weeks term begins</td>
</tr>
<tr>
<td>Sept. 2</td>
<td>Thurs.</td>
<td></td>
<td>First 7-weeks last day to add classes or change grade option</td>
</tr>
<tr>
<td>Sept. 5</td>
<td>Sun.</td>
<td></td>
<td>First 7-Weeks - Last day for 100% refund</td>
</tr>
<tr>
<td>Sept. 6</td>
<td>Mon.</td>
<td></td>
<td>Legal holiday – University closed</td>
</tr>
<tr>
<td>Sept. 26</td>
<td>Sun.</td>
<td></td>
<td>First 7-weeks - Last day to Withdraw with a Grade of 'W'</td>
</tr>
<tr>
<td>Oct. 16</td>
<td>Sat.</td>
<td></td>
<td>First 7-weeks term ends</td>
</tr>
<tr>
<td>Oct. 16</td>
<td>Fri.</td>
<td></td>
<td>Second 7-weeks payment deadline</td>
</tr>
<tr>
<td>Oct. 25</td>
<td>Mon.</td>
<td></td>
<td>Second 7-weeks term begins</td>
</tr>
<tr>
<td>Oct. 28</td>
<td>Thurs.</td>
<td></td>
<td>Second 7-weeks last day to add classes or change grade option</td>
</tr>
<tr>
<td>Oct. 31</td>
<td>Sun.</td>
<td></td>
<td>Second 7-weeks Last day for 100% refund</td>
</tr>
<tr>
<td>Nov. 21</td>
<td>Sun.</td>
<td></td>
<td>Second 7-weeks first day to withdraw with 'W'</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. 29</td>
<td>Mon.</td>
<td></td>
<td>Thanksgiving academic break ends - classes resume</td>
</tr>
<tr>
<td>Dec. 11</td>
<td>Sat.</td>
<td></td>
<td>Second 7-weeks term ends</td>
</tr>
</tbody>
</table>
**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 2 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)
- 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
Website: https://ysu.edu/student-conduct/code-conduct (https://ysu.edu/student-conduct/code-conduct/)

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**Accommodations for Students with Disabilities**

The Resch Academic Success Center 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 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 (https://ysu.edu/center-for-student-progress/disability-services/)

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**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?YoungstownStateUniversity/layout_id=0). Additionally, the University Police website has a Confidential Tip Form (https://ysu.edu/ysu-police/contact-us/help-us/confidential-tip-form/) that can be used to provide anonymity to the reporting person, as does the university’s EthicsPoint site (https://secure.ethicspoint.com/domain/en/report_company.asp?clientid=49559&override=yes&agreement=no).

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

**CONTACT FOR QUESTIONS/CONCERNS**
Office: Office of Community Standards and Student Conduct
Location: Kilcawley Center
Website: https://ysu.edu/student-conduct (https://ysu.edu/student-conduct/)

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**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.
- 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.
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- 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: Meshel 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 himself or herself to be or allowed himself or herself 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 living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes.

2. A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person’s domicile.

3. A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.

4. A veteran, veteran’s spouse, or dependent of a veteran who meets both of the following conditions:
   a. Served one of more years on active military duty and was honorably discharged, or received a medical discharge, or was killed while serving on active duty, and
   b. Establishes domicile in Ohio as of the first day of the term of enrollment.

5. A person who is transferred by his employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person’s domicile as long as such person has fulfilled his or her tax liability to the state of Ohio for at least the tax year preceding enrollment.

6. A person who has been employed as a migrant worker in the state of Ohio and his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

7. A person was considered a resident under this rule at the time the person started a community service position as defined under this rule, and his or her spouse and dependents, shall be considered a resident of Ohio while in service and upon completion of service in the community service position.

8. A person who graduated from an Ohio high school, left the state, and returns to enroll in an Ohio public institution of higher education and establishes domicile in the state.

9. A person who returns to the state of Ohio due to marital hardship, takes or has taken legal steps to end a marriage, and reestablishes financial dependence upon a parent or legal guardian (receives greater than fifty percent of his or her support from the parent or legal guardian), and his or her dependents shall be considered residents of Ohio.

10. A person who is a member of the Ohio National Guard and who is domiciled in Ohio, and his or her spouse and dependents, shall be considered residents of Ohio while the person is in Ohio national guard service.

11. 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:
Academic Grievances

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 (https://ysu.edu/student-conduct/)

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 to 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. (https://cm.maxient.com/reportingform.php?YoungstownStateUniv&layout_id=2)

YSU will keep student information confidential to the fullest extent of the law. Students who desire to make an anonymous complaint are encouraged to use YSU’s ethics reporting process (https://secure.ethicspoint.com/domain/...
media/en/qui/49559/) which is hosted by a third party and can maintain students’ anonymity.

**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 (https://catalog.ysu.edu/undergraduate/general-information/academic-policies-procedures/academic-grievances/).

**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 (https://catalog.ysu.edu/undergraduate/general-information/tuition-fees-charges/).

**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 contactYSUPD.

More information can be found here (https://catalog.ysu.edu/undergraduate/general-information/statement-equal-opportunity-policy-compliance/).

**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 (https://cm.maxient.com/reportingform.php?YoungstownStateUniv&layout_id=2). 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 (https://secure.ethicspoint.com/domain/media/en/qui/49559/), 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
- Grade 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 (https://www.ohiohighered.org/students/complaints/).

**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
Transfer Credit

Transfer hours from an accredited institution will be considered for acceptance at the time of application/acceptance to the College of Graduate Studies. After admission to a program of study, a student who wishes to attend another university to complete coursework toward a YSU graduate degree must complete the Request for Transfer Status form available on the College of Graduate Studies website in order to transfer credits to a YSU degree. Every transfer course must either replace a required course of the program or, if not a direct replacement, integrate satisfactorily into the student’s program. While transfer of a course might generate excess hours, such hours may not count toward degree requirements unless they replace a complete course in the program.

An accredited institution is one that is approved or accredited by the appropriate regional accrediting agency (e.g., Higher Learning Commission) for graduate-level work.

Credits for courses in which grades of S or CR were received will not be transferred. The number of transfer credits to be accepted in each case will be determined by the graduate dean upon evaluation and recommendation by the department of the student’s major. It is the responsibility of the student to initiate a request for the approval of transfer credits. Transfer hours are not included in the calculation of the student’s cumulative grade point average.

In general, workshop format courses are not acceptable for transfer. Professional development workshops are not acceptable. However, if the workshop fulfills the following requirements, credit may be considered for transfer to Youngstown State University:

- The workshop must be taught as part of a master’s degree curriculum of the university at which the course was taken.
- The workshop should consist of a minimum of 12.5 contact hours per semester hour.
- The workshop must include exposure to the disciplinary research literature appropriate to the course.
- The workshop must include the opportunity for outside work, such as term or research papers or other major assignments appropriate to a graduate course.
- Credits for courses in which grades of S or CR were received will not be transferred.

Graduate Certificate and Degree Programs

The following guidelines indicate the maximum credit hours of graduate work completed at other accredited institutions that may be applied toward a graduate certificate or degree at YSU, provided the student earned a grade of A or B in such courses:

- Up to 3 semester hours (4 quarter hours) for programs requiring 12-15 semester hours
- Up to 6 semester hours (8 quarter hours) for programs requiring 16-29 semester hours
- Up to 9 semester hours (12 quarter hours) for programs requiring 30-44 semester hours
- Up to 12 semester hours (16 quarter hours) for programs requiring 45-59 semester hours
- Up to 15 semester hours (20 quarter hours) for programs requiring 60-89 semester hours
- Up to 18 semester hours (24 quarter hours) for doctoral or programs requiring 90 or more semester hours

Military Credit

Graduate courses, approved by the American Council of Education to be equivalent to a graduate level course, will be considered by the graduate program to determine if transfer credit will be granted.

MBA Credit from Chinese University of Petroleum

The MBA program may accept up to 14 hours of transfer credit from the Chinese University of Petroleum.

Thesis and Dissertations

Certain programs accept or require a thesis or dissertation as partial fulfillment of the requirements of the degree. Students are asked to initiate an online form as soon as the members of the thesis/dissertation committee are identified. Students follow the style manual used by the field as determined by the department. The deadline for submission for approval to the Dean of College of Graduate Studies is:

- Fall and Spring semesters: dissertations submitted by the Monday of the 14th week of class
  theses submitted by the Monday of the 15th week of class
- Summer term: dissertations submitted by the Monday of the 10th week of the full term
  theses submitted by the Monday of the 11th week of the full term

Students who have finished required thesis/dissertation hours and have completed all course requirements but have not finished their thesis/dissertation are required to maintain current student status (enroll in at least 1 semester hour) in order to utilize University services such as computers, Microsoft Office software, laboratory facilities, music/art studios, library, advisory assistance, etc.

Research using human or animal subjects requires prior approval by the appropriate committee (YSU Human Subjects Research Committee or YSU Institutional Animal Care and Use Committee).

The oral defense is a public presentation and must be advertised within the college.

Additional thesis and dissertation information is available on the College of Graduate Studies website (https://ysu.edu/academics/college-graduate-studies/current-students/thesis/).

Research Using Human or Animal Subjects

Research using human or animal subjects requires prior approval by the appropriate committee (YSU Human Subjects Research Committee or YSU Institutional Animal Care and Use Committee). Assistance with the process of obtaining approval may be obtained from the Office of Research.
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/(

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). Students attempting to withdraw from an individual summer session should understand that all summer sessions are considered part of a single semester. If a student wishes to withdraw from a specific summer session, they must petition their academic college. If a student wishes to switch to part-time status or withdraw from selected courses, they must contact their academic advisor and obtain approval of their college dean.

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. Requests 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.
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.

Eligibility for Future Enrollment

New, readmitted and current students who withdraw from any or all courses after the 14th day of the term (7th day of the part of term) will be eligible for future registrations as long as their accounts are free from holds that prevent registration. The following student situations will only be able to register for future registrations once their start/return term is changed on record:

- New students who withdraw from all courses prior to the 14th day of the term will not be eligible for future registrations unless they request that the Office of Admissions defer their application to a future term.
- Readmitted students who withdraw from all courses prior to the 14th day of the term will not be eligible for future registrations unless they request that the Record’s Office defer the readmission application to a future term.

Exceptions

Late Withdrawal:

A withdrawal granted after the designated deadlines is known as late or retroactive withdrawal and may be granted in extraordinary circumstances. Students seeking a late withdrawal must do so in writing to the college in which the student’s major lies by filing a "Petition for Late Withdrawal." Late withdrawal must be requested within one year from the last day of classes for the semester in which a withdrawal is requested. The college dean or dean’s designee will be responsible for reviewing the student’s petition and providing a decision to the student; the decision of approval or denial shall be final and non-appealable.

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 has processed and posted on the student’s academic record.

Contact for Questions/Concerns

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

Contact the Office of Student Advocacy and Support Case Manager, and/or other appropriate designee for regular check-ins, as requested.

In general, students should follow the steps listed below prior to completing a course withdrawal or complete withdrawal for the semester:

- Contact your academic advisor and/or program coordinator about any type of withdrawal. Withdrawals may impact a student’s time to degree completion.
- Contact your athletic advisor if you are a student athlete and your withdrawal will mark you less than full-time credit status (below 12 credit hours). Withdrawal may impact a student’s athletic eligibility.
- Contact the International Programs Office if you are an international student and your withdrawal will mark you less than full-time credit status (below 12 credit hours). Withdrawal may impact an international student’s visa eligibility.
- Contact the Office of Financial Aid and Scholarships if you receive Title IV financial aid. Title IV financial aid counseling is a federal requirement and must be completed with a staff member prior to completely withdrawing for the current term.
- Complete the online exit survey in the Penguin Portal prior to completely withdrawing for the current term if you are completely withdrawing during the "W" period.

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, including how to drop a course or all courses for a semester are available on the Penguin Service Center website.

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

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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/registrars-office/

Time Limit

Master's Degree and Graduate Certificates

All coursework, including transfer credits, offered in fulfillment of the minimum credit-hour requirement for the degree/certificate, all comprehensive exams, and thesis (if required) must have been taken within the six-year period immediately preceding the date on which the last requirement is completed.

Doctoral Degree

All post-master's coursework, including transfer credit, must be taken within an 11-year period.

Matriculation to Doctoral Candidacy

Doctoral students shall be granted a six-year period to successfully complete the general examination and acquire candidacy status.

Doctoral Candidacy to Final Dissertation Copy

Doctoral candidates will have five years from the acquisition of candidacy status to file the final dissertation copy. Failure to meet this time frame will result in cancellation of the candidacy. With the approval of the dissertation advisor and the College Graduate Studies Committee, the student may take a supplemental general examination to reacquire candidacy. If the student passes the supplemental general examination, he or she is re-admitted to candidacy and must complete the dissertation within two years. The supplemental general examination may be repeated once.

In special cases, with appropriate justification by the student, the dean of The College of Graduate Studies may grant an extension of the coursework time limit upon the written request of the chair or program director of the department of the master's or doctoral study.

Courses approved upon entering a graduate program remain active for the length of time the student remains current in their program.

Intrauniversity Transfer (Change of Curriculum)

A student must request in writing a transfer from one graduate program to another. A transfer is not complete until an advisor in the program to which the student is transferring has been appointed and has accepted the student as an advisee, and when the change has been reported to and approved by the dean of The College of Graduate Studies. In such cases of transfer, courses taken in the original curriculum that also apply toward the degree in the new curriculum will be accepted. The student's academic record and grade point average will reflect all graduate courses taken.

Academic Standards

A cumulative grade point average of at least 3.0 (on a 4.0 scale) is required for graduation. All graduate courses taken at YSU are included in the grade point average calculation (see Grading System for grades less than C). Good academic standing for graduate students is a cumulative grade point average of at least 3.0 (on a 4.0 scale) for all graduate credit courses taken at YSU.

Satisfactory Academic Progress

Satisfactory academic progress at the graduate level is maintained by satisfying the following criteria:

- A degree-seeking graduate student must maintain a minimum grade point average of 3.0 (on a 4.0 scale). Any required course grade of D or F must be repeated and passed with a grade of C or better.
- A degree-seeking graduate student must successfully meet the requirements, including the time requirement, of all comprehensive examinations of the degree program.
- A degree-seeking graduate student must complete with a passing grade any thesis requirements (or the equivalent) of the degree program.
- A non-degree graduate student must maintain a minimum grade point average of 3.0 (on a 4.0 scale).

Academic Suspension

A graduate student who is not maintaining satisfactory academic progress as determined by the graduate academic program director or department chairperson and graduate dean may be excluded from registration and
dropped from the program in which he or she is enrolled. Such action constitutes academic dismissal from the College of Graduate Studies.

Regularly admitted students who are “not in good standing” will be academically suspended if their semester GPA is below 3.0 for more than one semester.

Provisionally admitted graduate students must maintain a minimum grade point average of 3.0 (on a 4.0 scale). Provisional students whose GPA falls below a 3.0 will be academically suspended.

Students who fail to pass a comprehensive exam after three attempts will be academically suspended.

Any student in non-degree status whose cumulative grade point average drops below the minimum (3.0) will be prohibited from enrolling in further graduate coursework.

Registration for any session or continuous registration during a full summer counts as one semester for these purposes.

A graduate program may utilize additional academic standards to determine satisfactory academic progress and/or standards for academic suspension; however, such standards must be distributed in writing to all graduate students in the program and must be approved by the dean of The College of Graduate Studies.

Readmission Procedures

• Under exceptional circumstances and with the approval of the Dean of The College of Graduate Studies, a program may readmit a suspended student. In such cases, the normal six-year limitation on coursework shall be applied.

• Graduate students suspended for failing to maintain satisfactory academic progress may appeal their suspensions within one year in writing to the Graduate Council. The decision of the Council is final.

• A graduate student who has been suspended for academic reasons may reapply to the College of Graduate Studies in order to begin a new degree program or to pursue studies in non-degree status. A readmitted graduate student is not permitted to register for any courses offered by the program from which he or she was academically suspended.

Second Master’s Degree

A student who has a master’s degree from YSU and desires a second master’s degree must earn a minimum of 12 semester hours of credit in addition to the total that the student had when requirements for the first degree were completed, and he or she must complete the requirements for another graduate program. Students with a master’s degree from another university will be limited to the maximum of transfer credit hours as determined by the transfer credit policy.

Interrupted Enrollment

Students who interrupt their attendance for three or more semesters (one calendar year) must apply for readmission as former students at least two weeks before late and final registration. Graduate students who fail to take courses or otherwise pursue their graduate education for one year will be readmitted only under regulations at the time of reapplication and after review by the department for approval of the readmission.

Full-Time Status

Full-time students carry six or more semester hours for credit. Graduate students who complete less than six hours per semester may lose eligibility for federal financial aid as a full-time student.

Graduate Courses for Undergraduate Students

Permission for Undergraduate to enroll in graduate courses for graduate credit is made under the following criteria:

1. Senior standing with grade-point average of 2.7 or above.
2. May not cause total schedule to exceed 15 semester hours.
3. May not be used for graduate credit until student is admitted to YSU College of Graduate Studies and credit is accepted by the department.
4. Total of such credit may not exceed 9 semester hours.

The Application by Undergraduate to Enroll in a Graduate Course form is available at the following link (https://ysu.edu/sites/default/files/UGgraduate_credit_1016.pdf).

An undergraduate student who is enrolled as a senior at Youngstown State University or at another member institution of the Academic Alliance (currently including Lake Erie College, Slippery Rock University of Pennsylvania, Thiel College, Walsh University, and Westminster College) or another institution of higher education with which YSU has a formal academic agreement at the undergraduate level, and who has a grade-point average of at least 2.7 may enroll in 5800-, 6900- and 7000-level graduate courses, provided the total schedule for the semester (including undergraduate courses) does not exceed 15 semester hours. Before registering for courses, the student must have the approval of the Graduate Program Director in the program where the credit will be applied, the course instructor, and the Dean of The College of Graduate Studies. The credit earned may be used for graduate credit at YSU 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. (Such coursework intended for graduate credit cannot count toward fulfillment of the requirements for a bachelor’s degree at Youngstown State University.) The maximum amount of such credit that will be accepted at Youngstown State University is 9 semester hours.

Students in accelerated programs will be accommodated to allow completion of degree requirements as specified in the program curriculum.

Grading Method and Procedures

The following grading system is used in reporting a final evaluation of the work of graduate students in courses or thesis research: A, B, C, D, and F. The grade point equivalents are 4, 3, 2, 1, and 0, respectively. A graduate student may not elect to take a course under the credit/no credit option.

Grades of D and F carry no graduate credit but will be used to determine the student’s grade point average. Failure will normally be indicated by a D; a grade of F indicates that the student has not achieved even a minimum grasp of the essentials of the course. A student has the privilege of repeating a course once, but the repetition is treated merely as another course, along with the first, in calculating the student’s grade point average. Any required course grade of D or F must be repeated and passed with a grade of C or better.

Upon transfer to a new graduate program, a student with concurrence of the advisor, program director and department chair, may petition the dean of Graduate Studies for the exclusion from the calculation of the student’s grade point average, previous courses that do not apply to the new degree program. The grades will be removed from the GPA calculation but will remain on the transcript. In no case may courses be excluded from the calculation of the grade point average once a graduate degree has been conferred.
Graduate workshops are graded on an S/U (satisfactory/unsatisfactory) basis.

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.

With approval by the instructor and the dean of the college where the course is taught, the completion date may be extended. Courses not completed by the appropriate date will be 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."

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.

In the case of thesis work, independent study, and other courses where research or scholarship is still in progress at the time grades are to be reported, a PR may be reported in place of a conventional grade. The PR grade is intended to indicate that it is the nature of the scholarship rather than the student’s ability to complete the work that is preventing the issuance of a conventional grade. A PR grade must be converted to a regular grade prior to graduation. However, a PR grade can remain on the student’s permanent record if the course is not needed. A PR grade in and of itself will not prevent a student from graduating.

AU signifies that the student was enrolled in the class as an auditor.

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 or Petition for a Late Withdrawal.

Workshops
Students who wish to take a workshop for graduate credit but who have not completed the regular College of Graduate Studies admission process will be permitted to register as non-degree students in the College of Graduate Studies. Graduate workshops are graded on an S/U (satisfactory/unsatisfactory) basis.

Certain Youngstown State University workshop courses, upon approval of the graduate advisor, may later be applied to degree work if regular admission to the College of Graduate Studies is obtained and if those courses are part of the degree program. Workshop courses are those specifically designated as such in this catalog or by the Graduate Council.

Auditing Courses
An auditor is not held responsible for the regular classwork, class attendance, and preparation of assignments and receives no credit for the course. The student pays the regular tuition as well as any other applicable fees for the course(s) audited. Assistantships and scholarships do not cover audited courses. Audit courses are carried in a student’s load only for fee purposes. A student who has registered for a course for audit may not change that status to credit after the last day to add a class. An AU may be given only to a student who has begun a course as an auditor or who has changed status to that of auditor on or before the last day to add a class.

Course Registration
Advisement
Before initial registration, the student would be well advised to consult with the faculty member in charge of the program to which the student has been admitted or with an assigned advisor for advice in developing a program of study that leads to the desired degree. The ultimate responsibility for selection of graduate courses, based upon the requirements of the student’s program as set forth in the Catalog, remains with the student. Continued consultation
with the advisor is encouraged. Because of the nature of certain programs, an advisor may require consultation before each registration.

**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. An open registration period begins after the priority weeks and remains open through the last day to add a course for the semester.

**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 term (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 four-hour hours of study and instruction per week for 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.

**COURSE NUMBERING SYSTEM**

5800-5899 Swing Courses*
6900-7999 Graduate
8000+ Doctoral

*Courses can be taken at either undergraduate or graduate level.

**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 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 graduate 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.

**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. 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.

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

Minimum Registration Requirement
Students are required to maintain current student status (enroll in at least 1 semester hour) in order to utilize University services such as computers, Microsoft Office software, laboratory facilities, music/art studios, library, advisory assistance, etc.

Graduation Requirements
Catalog of Entry
The Graduate Catalog in effect when a student enrolls in a program will be the guide to graduation requirements, provided the student is in continuous attendance and does not change programs.

When a student changes programs, the guide to graduation requirements will be the catalog in effect at the time of change.

Readmitted students will use the catalog in effect at their last readmission as the guide to graduation requirements. Any exceptions to requirements must be approved by the student's program director. The university reserves the right to change course offerings and academic requirements.

Commencement
The Graduation application must be completed by the stated deadline of the semester the student intends to graduate. Submission of the graduation application is the student's responsibility. There are two graduation ceremonies each year:
- fall commencement at the end of the first semester in December and
- spring commencement at the end of the second semester in May.

Please refer to the "Special Purpose Fees and Service Charges" list as well as the section titled "Other Fees" for information about the graduation fee. The Graduation application can be accessed through the Penguin Portal.

Posthumous Degrees
A deceased student who was enrolled in an undergraduate, graduate or doctoral degree program at the University at the time of his/her death may be recommended for a posthumous degree by a faculty member, department chairperson, or dean of the appropriate college or academic unit. A recommendation must be in writing and proceed, respectively, for approval as follows:
- faculty member to chairperson,
- chairperson to Dean,
- Dean to Provost and
- Vice President of Academic Affairs.

The Provost and Vice President of Academic Affairs will notify the Registrar if the recommendation is approved.

In order for a posthumous degree to be awarded, a student must be in good academic standing and have substantially completed the applicable degree requirements. Substantial completion means:
- For undergraduate degrees and master degrees without a thesis requirement, the student must be within one semester of completing all coursework and degree requirements.
- For doctoral programs and master degree programs with a thesis requirement, the student must be within one semester of completing all coursework and degree requirements; and the student must have completed a full draft of his/her thesis to the satisfaction of his/her thesis chairperson.

If approved, the appropriate Dean will notify the immediate family of the student who may choose to have the diploma presented at commencement or in a private ceremony. If the diploma will be presented at commencement, it will occur at the next feasible commencement.

Diplomas for posthumous degrees will be identified as "Awarded Posthumously."

Visiting Graduate Students
Visiting Graduate Students
A visiting graduate student is defined as one who is completing graduate academic work at Youngstown State University for credit at another university. All visiting graduate students shall be required to be granted visiting student status while engaged in academic work at YSU.

Visiting student status shall provide access to the following campus resources (fees may be required):
- a YSU identification card;
- access to campus buildings and laboratories, including computer labs;
- use of library facilities; and
- campus parking.

Applications for visiting student status are available via the application portal (https://ysu.elluciancrmrecruit.com/ApplyYSUInternationalAccount/Login/?ReturnUrl=%2fApplyYSUInternational%2f). Please select your Degree Type field as "Non-Degree."

International students interested in visiting student status can gain information at the following Visiting/Exchange student link (https://ysu.edu/international-programs-office/apply-now/quick-menu/apply-j1-student/).

Graduate Courses
Graduate credit may be earned in the following courses:

Minimum Registration Requirement
Official academic credentials are required for admission to the College of Graduate Studies and should be sent whenever possible. However, for application review purposes, scanned copies of academic credentials will be accepted. Please scan and save all academic credentials as PDFs into one document for each institution attended. Upload each document to the Unofficial Transcript items within the Supplemental Items listing on your application account page. Upon acceptance, the official documents must be sent to the College of Graduate Studies as soon as possible to avoid delay in your course registration.

Applicants may be admitted as "Degree Pending" to the graduate college based on (7) seven semesters of undergraduate study. Admission is contingent on students finishing the undergraduate degree and providing official transcripts or proof of degree indicating that the degree has been conferred by the end of their first term. Students will not be able to register for the following term until the proof of degree and final official transcripts have been received.

Study Abroad Credit and Transcripts-Original transcripts from the institution where study abroad courses were completed are not required unless the study abroad coursework falls into any of the following categories:

- where a degree was earned, or is expected to be earned
- where post-baccalaureate credit was earned
- where any graduate level courses were attempted, or completed

Official academic credentials and test scores should be sent to:

Youngstown State University
College of Graduate Studies
1 University Plaza
Youngstown, OH 44555

Applicants should provide all the information requested in the first submission of materials. Omission of information on the application form will necessitate requests for additional information and therefore delay application processing. International applicants should also see the International Student Admission section for additional requirements. As soon as possible after receipt of all application materials, students will be notified of the action taken on their application. Registration information will be provided upon admission to the College of Graduate Studies.

Once accepted for admission to the College of Graduate Studies, applicants may defer admission one time within one year at no cost. The one year will be from the term and year initially selected. Applicants will be provided instructions on how to defer after the request has been received by the College of Graduate Studies. Additional deferral of admission or deferral beyond one year will require applicants to apply for readmission and pay the current application fee.

*NON U.S. TRANSCRIPTS*

- Any applicant (including U.S. citizens) who attended a non-U.S. educational institution must provide a sealed certified/attested official transcript to the College of Graduate Studies by the end of their first term (if admitted). Unofficial transcripts uploaded to the application will be accepted for admissions purposes. Unofficial transcript must clearly state the name of the applicant, the name of the college/university and must be complete. Any transcripts that do not meet this criteria and/or appear to be tampered with will not be accepted.
- Study Abroad Credit and Transcripts-Original transcripts from the institution where study abroad courses were completed are not required unless the study abroad coursework falls into any of the following categories:

*COVID-19*

Please see the link for a complete list of the College of Graduate Studies COVID-19 adaptations ([https://ysu.edu/college-graduate-studies/college-graduate-studies-adaptation-covid-19/](https://ysu.edu/college-graduate-studies/college-graduate-studies-adaptation-covid-19/)).

**Admission**

**Admission Procedure**

To apply online for graduate admission, visit our website at [www.ysu.edu/gradcollege](http://www.ysu.edu/gradcollege). Students are required to pay the admission fee by credit card or electronic check (only if applicable) as part of the process.

While unofficial transcripts will be accepted for the purpose of making admission decisions, official transcripts are required for admission to the College Graduate Studies. Unofficial transcript must clearly state the name of the applicant, the name of the college/university and must be complete. Any transcripts that do not meet this criteria and/or appear to be tampered with will not be accepted. Registration beyond the initial term will not be permitted until official transcripts have been received.

An official transcript is required from each college or university attended, except YSU:

- where a degree was earned, or is expected to be earned
- where post-baccalaureate credit was earned
- where any graduate level courses were attempted, or completed

Official transcripts must be sent directly from the institution to the College of Graduate Studies. If your official transcripts have been sent to YSU previously, we will check our database during initial application processing. Personal opened or unofficial transcripts issued to the student or those delivered or sent by the applicant instead of the institution will not be accepted. Student issued official transcripts will only be accepted if they are still in the sealed envelope from the college or university.

*8000-level courses, which are for doctoral students only*

*6900- and 7000-level courses, which are open to graduate students (see Graduate Courses for Undergraduates). At least one-half of the credits applied toward the master's degree must be earned in courses in the 6900- and 7000-series.*

*Upper-division undergraduate swing courses (5800-level), in which the student may enroll for graduate credit only*

Only certain upper-division undergraduate courses may be taken for graduate credit. Those in this category are listed in the Courses section of this catalog. To earn graduate credit in an upper-division course, the student must be admitted to the College of Graduate Studies before the course is taken. Graduate students in undergraduate courses that offer graduate credit will be required to pursue the subject matter in greater depth than the undergraduate student.

Graduate students may register for 4000-level or lower courses, but these courses do not apply toward the requirements of a graduate degree. Although the grades received and semester hours for such courses appear on the student’s record, the hours and quality points are not included in the student’s cumulative totals.

**Seminar**

A seminar generally consists of a group of advanced students studying a subject under a professor, each making some pertinent contribution and all exchanging results through informal lectures, reports, and discussions.

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Official academic credentials are required for admission to the College of Graduate Studies and should be sent whenever possible. However, for application review purposes, scanned copies of academic credentials will be accepted. Please scan and save all academic credentials as PDFs into one document for each institution attended. Upload each document to the Unofficial Transcript items within the Supplemental Items listing on your application account page. Upon acceptance, the official documents must be sent to the College of Graduate Studies as soon as possible to avoid delay in your course registration.

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College of Graduate Studies
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Youngstown, OH 44555

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- Study Abroad Credit and Transcripts-Original transcripts from the institution where study abroad courses were completed are not required unless the study abroad coursework falls into any of the following categories:
Admission

• where a degree was earned, or is expected to be earned
• where post-baccalaureate credit was earned
• where any graduate level courses were attempted, or completed

Provisional Certificates will be accepted in lieu of Final Certificates for international applicants in South Asian, and African markets

Test Information

Some programs require submission of specific test results to the College of Graduate Studies as part of the admission procedure. The Graduate Record Examination is available at Sylvan Learning Center locations. ETS has also begun at home testing of the GRE; more information can be found at https://www.ets.org/s/cv/gre/at-home/… The Graduate Management Admission Test is available at Pearson VUE test centers; see GMAT website (http://www.mba.com/us/) for more information. Arrangements for taking the Miller Analogies Test on campus may be made directly with the Testing Office in 154 Maag Library, (330) 941-3175. Test scores are valid for five years. The YSU institutional code is 1975.

Admission Requirements

Minimum requirements for admission to the College of Graduate Studies are the following:

• A bachelor’s degree from a college or university certified by a regional accrediting agency (e.g., Higher Learning Commission) approved by the U.S. Department of Education. (A bachelor’s degree from non-regionally accredited institutions may be considered acceptable for admission. These are reviewed by the Admission and Appeals Committee.)

• A cumulative grade point average in undergraduate work at the degree granting institution of at least 2.7 (on a 4.0 scale). At the request of applicant or program, the cumulative GPA can be calculated with the inclusion of the grades for all courses specified on transcripts from accredited institutions (or equivalent) up to the first bachelor’s degree.

• Satisfactory preparation for the graduate program in which the student wishes to enroll as specified by the department of the major

• A test of written/spoken English, which the University reserves the right to request, of any entering graduate student whose primary language is not English. Additional requirements apply for international student admission

• Students having a cumulative undergraduate GPA below 2.7 (At the request of applicant or program, the cumulative GPA can be calculated with the inclusion of the grades for all courses specified on transcripts from accredited institutions (or equivalent) up to the first bachelor’s degree), at the degree granting institution, must present a satisfactory score on the general test of the Graduate Record Exam, the Miller Analogies Test, or graduate-level subject specific exam as specified by the department of the major.

• Nine semester hours of graduate work at a 3.0 GPA from a regionally accredited institution may be substituted for the GRE/MAT requirement for regular admission status

The applicant is reminded to check specific admission requirements of the program in which he or she wishes to enroll to determine if there are any additional requirements

Additional Requirements for International Students

International applicants must complete an online application for admission and provide all materials required at least four months prior to the semester they wish to be considered for admission. In addition to the regular admission requirements, the following must also be submitted:

• For F-1 or J-1 Visa certification: evidence of financial support and sponsorship during the period of study at YSU, including documents of verification.

• YSU enrolls students in accordance with the policy of the United States Bureau of Citizenship and Immigration Services.

English Language Proficiency

• TOEFL score—A minimum score of 550 on the paper-based test, 213 on the computer-based test, or 79-80 on the Internet-based (IBT) Test of English as a Foreign Language by graduates of foreign universities who are nonnative English speakers. (Scores over two years old by the beginning of the term applicants wish to enter are not acceptable.) Arrange with the Educational Testing Service to have your official TOEFL score sent to our office.

• The College of Graduate Studies will accept the academic version of the IELTS (International English Language Testing System) as an alternative to the TOEFL exam for international students (A score of 6.5 on the IELTS test equates to a 550 on the paper-based TOEFL). The Duolingo English Test (DET) is also accepted. Recommended DET Master’s score is 105. Recommended DET Doctoral score is 115

• Proficiency may also be demonstrated by a letter of certification from the Youngstown State University English Language Institute (ELI) stating that the applicant has completed the program of study and is proficient in English at a level appropriate to pursue a graduate degree and present an English language thesis if one is necessary as a degree requirement.

• Prior to full admission to graduate study, students may be tested and placed in special English classes, if necessary, to ensure an adequate level of English proficiency. (Note: Evidence of proficiency is waived for applicants educated in English-speaking countries as defined in the YSU Undergraduate Catalog or for applicants holding U.S. Legal Permanent Residence for one year or for applicants who have successfully completed 24 semester hours of college-level coursework from an accredited English-medium college in the United States or another country where English is the official language.)

• ELI Guaranteed Admission—The application and supporting materials of an applicant whose language score is unknown, or less than that required for admission will be reviewed for admission by the appropriate academic program. Upon recommendation of the program director, academic dean and approval of the graduate dean, an offer of admission to the English Language Institute and admission to a graduate degree program will be made. The offer of conditional admission will be effective for one year. When appropriate, the admission letter will indicate that in addition to being admitted to the ELI program, the applicant will be admitted to the graduate degree program and the College of Graduate Studies upon satisfactory completion of the English Language Institute at Youngstown State University.

Types of Admission

Regular

Regular admission will be granted to students who satisfy the admission requirements for the graduate program in which they wish to enroll. Other categories are available as noted.

Provisional

Upon recommendation of the program director or chair, and the college dean, and subject to the approval of the dean of Graduate Studies, a student may be accepted with provisional admission if their undergraduate record shows slight deficiencies compared to the admission requirements of the program to which the student seeks entrance. Students who are admitted with provisional status because of undergraduate course deficiencies will be required to make up the deficiencies by taking the appropriate undergraduate courses. Students admitted in provisional status may have no more than 9 s.h. of undergraduate course deficiencies. Students who are admitted with provisional status because of low test score(s) or low cumulative undergraduate grade point averages will be reviewed by the program director and/or chair when nine semester hours of degree-credit coursework are completed. The program director and/or chair will change the student’s status from provisional to regular if the deficiencies have been met and/or the student’s record justifies.
such a change. The advisor will report the change to the Dean of Graduate Studies on the Action on Provisional Status form.

Non-degree

Non-degree status provides an opportunity for individuals who hold a baccalaureate or higher degree to enroll in graduate classes for professional or personal development, personal enrichment, or to explore the possibility of entering a graduate degree program without completion of the regular graduate admission process. Departments may require prior approval for non-degree student registration in departmental courses. Students should contact the department for approval to register before submitting an application.

Non-degree applicants must meet all requirements for admission to the College of Graduate Studies (minimum cumulative GPA of 2.7 at the undergraduate level, baccalaureate degree, and submission of all academic transcripts). Status as a non-degree student is not an admission to a College of Graduate Studies degree or certificate program. Non-degree students, including those seeking a graduate certificate, must complete a non-degree application online. Non-degree students that are not in a graduate certificate program must submit an application for every semester they plan on taking courses. Non-degree students are required to pay the regular application fee. If non-degree students subsequently decide to seek admission to a graduate program, no further application fees will be assessed, but all required credentials must be submitted.

Non-degree students are ineligible for many types of financial aid (including assistantships awarded by the College of Graduate Studies). Non-degree students may seek advisement from the chairperson or program director in the academic area in which they have been permitted to take courses.

Students may only complete nine semester hours as non-degree seeking students. A maximum of nine semester hours taken as a non-degree student may be applied toward a degree program if accepted by the department in which the student wishes to earn a degree and if the department’s recommendation is approved by the dean of Graduate Studies. This transfer limit may not be appealed. Any additional coursework beyond nine semester hours in non-degree status will not carry credit toward a graduate degree. However, all graduate courses taken as part of a graduate certificate may be counted toward a degree program, if the student is subsequently accepted into the program and the certificate courses are applicable.

Students enrolled in certificate programs may not deviate from the courses required for the certificate. If they do, the additional courses will not carry credit toward a graduate degree. Non-degree students who are enrolled in or who complete certificate programs and subsequently decide to enroll in a graduate degree program must meet all admission criteria for the program in which admission is sought.

NOTE: Students who need to take more than nine semester hours in non-degree status (for licensure, certification, or to earn a graduate certificate, etc.), may reapply to the College of Graduate Studies for up to an additional nine semester hours in non-degree status.

Transient

Transient admission may be granted to a degree-seeking student who attends any accredited graduate school and who submits a Graduate Transient Student form, signed by the dean of the student’s home graduate school, showing that he or she is a graduate student in good standing. The form to be used in such cases may be downloaded from the YSU College of Graduate Studies website (http://www.ysu.edu/sites/default/files/RequestForTransient_Status_1016.pdf). Additionally, the student will need to complete a Non-Degree application on our website at www.ysu.edu/gradcollege (http://www.ysu.edu/gradcollege). Under some circumstances, transient admission may be renewed for a second semester, but the graduate deans of both universities must approve the renewal. If a transient student later wishes to become a regular graduate student, he or she must be admitted to a degree program by following the usual admission procedures. An admitted transient student must meet all prerequisite requirements for any course taken at Youngstown State University.

Readmission

An applicant in good standing that is seeking readmission into the same program in the College of Graduate Studies shall not be required to submit new supplemental items (including standardized tests). New transcripts will only be required for schools not indicated on the previous application. If the student has not been enrolled in graduate study at YSU for 2 years or less, the student can be readmitted without departmental review. If the student has not been enrolled in graduate study for more than 2 years, the Program Director will be consulted and may decide to review the application and provide a readmission recommendation, or may request that the student be readmitted without department review.

A student in good standing that is seeking readmission into a different program than the one to which they were last admitted, will be required to submit all supplemental items required for admission to the new program. In cases where the GRE/MAT is a required application item, the GRE/MAT will be waived if the student has successfully completed 9sh of graduate study with a GPA of 3.0 or above from a regionally accredited institution – if such a waiver is requested by the Program Director.

Please note that a readmit is a student that has attended the YSU College of Graduate Studies in the past. Students that were accepted in the past, but never registered for courses are not considered to be a readmit.

Financial Assistance

Graduate students may apply for assistantships and fellowships, on campus employment, as well as Federal Financial Aid (https://studentaid.gov/h/apply-for-aid/fafsa/). Scholarships (p. 26) are also available.

Assistantships

The assistantship program is predicated on the idea that graduate students, given an opportunity to assist the faculty, provide a service to the institution and also gain valuable experience through this work in association with the faculty. Appointments to assistantships are made by the dean of The College of Graduate Studies only upon recommendation by the student’s academic department. In those instances, in which the student indicates acceptance of an assistantship award after April 15, the student may not accept another appointment without first obtaining formal release for this purpose.

Applications for assistantships must be accompanied or preceded by application for admission to the College of Graduate Studies. All applicants and current students with superior credentials including first-year international graduate students may apply for graduate assistantships.

Graduate assistants may be assigned to instructional, research, and/or other academic duties as determined by the department in which the assistant is appointed and as approved by the dean of The College of Graduate Studies.

Graduate Assistant (GA) A GA is normally assigned duties primarily focused on the conduct of research/scholarly activity. A GA may be assigned teaching duties, but should not be the instructor of record for a course. Appointment is typically for the Fall and Spring semesters of an academic year.

Graduate Research Assistant (GRA) A GRA is only assigned duties focused on the conduct of research/scholarly activity and will typically receive a twelve-month appointment.

Graduate Assistant/Intern (GA/I) A GA/I is a special category of graduate assistant, designated as a graduate assistant/intern (GA/I), provides opportunities for University offices or departments, community companies or agencies, or other appropriate external sponsors to involve graduate students as academic assistants/interns in “real life” experiences related to their fields of study. The department/agency of service will provide a stipend and 5% fringe to the University. The University will pay the student through the normal
stipend process. The GA/I will be expected to work in the internship work environment 20 hours per week.

Teaching Assistant (TA) A TA will only be assigned duties focused on instruction and may be the instructor of record for a one regularly scheduled lower division undergraduate class or classes.

Note: Additional academic services to the academic program in which the student is enrolled may be appropriate for all assistantship appointments.

A student appointed as a graduate assistant (GA, GRA, TA and GA/I) or fellow will be paid a stipend and fringe benefits that include:

- Remission of to 36sh of instructional fees during the combined fall and spring semesters and up to 12sh for the summer term (for graduate courses required to complete a single degree program)
- Remission of the parking permit fee.
- Nonresident tuition surcharge
- Music performance fees (if applicable)

For GA/I appointments the department/agency of service will fund the stipend and fringe. A stipend will be paid to the student through the normal stipend process for GA/I appointments.

Stipends are subject to federal, state and city taxes. GAs and fellows can select, if they wish, to participate in Ohio Public Employees Retirement System (OPERS).

Assistantship/fellowship appointments require 20 hours per week for 16 weeks for each fall and spring semester (including exam week) and 14 weeks for the summer semester (for 12-month appointments) for duties to be assigned by the department chair. Typically the assistantship/fellowship schedule follows the YSU academic calendar. In some cases the schedule may need to be changed to accomplish the duties to be performed. In such cases, the department chairperson will provide written notice of the change to the student affected and to the Dean of Graduate Studies. Graduate assistants/fellows assigned to classroom or laboratory duties are under the direct supervision of a full-service faculty member who will retain full responsibility for the maintenance of high academic and pedagogical standards.

The Chair of the department will be responsible for assessing the oral proficiency in English. Students who do not achieve a satisfactory rating will not be permitted to teach, and will be assigned non-teaching duties (research, grading, etc.) International graduate students, who have been appointed as teaching assistants, including graduate assistants who are assisting with teaching duties, are required to demonstrate oral proficiency in English. The speaking subsection of a standardized test will be utilized in the assessment process. For a TA, a minimum of 23 on the TOEFL is considered satisfactory; a score of 7 is considered satisfactory on the IBT and for students completing Duolingo a review of the interview is required to assess oral proficiency.

Graduate students who are in provisional status because of undergraduate coursework deficiencies cannot be appointed as teaching assistants until the required coursework is completed. Such students can be considered for research appointments. Exceptions to this policy may be considered and must be reviewed and approved by the dean of the College of Graduate Studies.

To remain eligible for the assistantship, an appointee must discharge his or her duties satisfactorily and maintain good academic standing. An appointee must maintain enrollment of a minimum of 9 semester hours of degree-credit coursework for each fall and spring semester. In addition, students appointed through the summer terms must also enroll in at least 6 semester hours. With the advisor's approval, graduate coursework that is not part of the graduate assistant's degree program may be counted toward the 18-semester-hour minimum for the assistantship. Approval to carry more than 18 semester hours or fewer than the minimum required hours in any semester/term may be granted by the dean of The College of Graduate Studies upon clear justification by the student's academic program department. For a TA who is the instructor of record and has a teaching load of five to six semester hours, the minimum required enrollment is six semester hours, but the College of Graduate Studies must be notified of this. For a teaching assistant who is the instructor of record and has a teaching load of four semester hours or less, the minimum required enrollment remains at nine semester hours.

Graduate assistants shall not hold other full-time employment but may accept occasional or temporary employment outside the University during the term of the assistantship, subject to the approval of the department chair or the program director of the department. Other employment on the YSU campus requires the approval of the dean of The College of Graduate Studies.

Guidelines for Graduate Assistant Leave

Circumstances occasionally occur that prevent graduate assistants (including GAs, TAs, and GAIs) from performing the duties of their appointment. Consistent with Youngstown State University's effort to support all members of our community, these guidelines seek to reduce the professional and personal stresses that can develop when graduate assistants encounter extenuating circumstances that warrant a temporary absence from their assistantship duties. The purpose of these guidelines is to outline how instances of personal and/or family illness, injury, childbirth or adoption, and other agreed upon and valid reasons for absence should be addressed by the unit funding the assistantship. These guidelines are intended to ensure that the graduate assistant support be maintained to the extent possible during an approved absence. In the cases of unforeseeable events, the graduate assistant should inform his/her direct assistantship supervisor as soon as the circumstances and dates of needed leave are known. For unforeseeable events, notification should be made as soon as possible once the need arises. It should be noted that leave requests may be jeopardized or denied for reasons including, but not limited to, multiple leave requests, unsatisfactory performance levels, evidence of dishonesty, and insufficient documentation. Furthermore, these guidelines pertain only to issues related to the individual as a graduate assistant. There are separate attendance policies for the individual as a graduate assistant at YSU.

Short-term graduate assistant absences may be requested for valid periods of absences which typically span less than two weeks in duration. In these instances, the graduate assistant should make the request to his/her direct assistantship supervisor as promptly as possible, so that coverage of duties during the requested short-term absence can be addressed. Reasonable requests for short-term absences can typically be approved with all graduate assistant benefits maintained. The graduate assistant should work with the direct assistantship supervisor and the department chair to ensure that the time can be made up in a reasonable manner through creative ways such as working up to an extra five hours per week, working over university breaks, etc. The graduate assistants, the direct assistantship supervisor, and the department chair should agree to this plan in writing through the Short Term/Extended Leave Form (See Attached).

For needed absences from graduate assistant duties of longer than two weeks, a graduate assistant must formally request an extended leave. Long-term absences may be requested for a variety of valid reasons as previously noted. These types of requests should be reasonable and include written documentation related to the reason for absence (such as a letter from a medical doctor, legal documentation, etc.). The request for extended leave must be made to the chair of the department providing the assistantship in consultation with the direct assistantship supervisor. Whenever possible, the department chair should not reassign workload to another graduate assistant. Graduate assistants who are formally approved through the Short Term/Extended Leave Form will be excused from their regular graduate assistant activities for the duration of their approved leave. Although tuition remission will continue during the extended absence, graduate assistants will no longer receive the monthly stipend for the duration of their approved leave. The graduate assistant's monthly stipend resume upon successful return to the graduate assistant position within the particular appointment period. Should the graduate assistant require additional leave time beyond the original agreement, this must be formally approved by the department chair in consultation with the direct graduate assistant supervisor through the Short
Term/Extended Leave Form. Should the graduate assistants be unable to return until after the original appointment ending date, there is no guarantee of the availability of a continued graduate assistantship. However, the graduate student would be considered for future graduate assistant appointments in a manner consistent with all other graduate students.

Cushwa/Commercial Shearing Graduate Fellowships

Cushwa/Commercial Shearing Graduate Fellowships are available for selected outstanding graduate students in YSU’s master’s degree programs in Science, Technology, Engineering, and Mathematics (STEM). Upon successful completion of the program, Cushwa Fellows will be awarded a master’s degree in their field of study. The Charles B. Cushwa, Jr./Commercial Shearing Inc. Graduate Student Scholarship/Fellowship Fund was established in 2003 to provide students the opportunity to pursue advanced degrees, get career experience, and offset some of the financial challenges of continuing their education. In addition, the community will benefit from these scholars interacting with local businesses and bringing the resources of the University into the local economy.

Fellows are expected to devote 20 hours per week for 16 weeks per semester (12 weeks in summer) to fellowship duties. They are assigned to a research or other appropriate work experience that is related to the academic program in which they are enrolled. Fellows are normally expected to complete at least one semester as a graduate intern at a company or industry site related to their degree program. Cushwa/Commercial Shearing Fellows must maintain enrollment in at least 18 semester hours of degree-credit coursework for the regular academic year (fall and spring), not fewer than nine semester hours of degree-credit coursework during each fall and spring semester, and not fewer than six semester hours in the summer. To remain eligible, fellows must discharge their duties satisfactorily and maintain good academic standing in their coursework. Appointments are made annually based on satisfactory performance.

The stipend is $15,000 for the academic year and summer (three semesters). Fellows will be awarded funding for instructional fees and out of state surcharge. Other academic fees may be remitted.

Normally, the Cushwa/Commercial Shearing Fellow receives an appointment for two years, including summers. An application for a Cushwa Fellowship should be submitted with the initial application for admission to the College of Graduate Studies or as soon as the student is advised to do so by the graduate faculty advisor. As part of the application process, applicants must submit an official Graduate Record Examination (GRE) score report (regardless of whether or not the GRE is required for the student’s graduate program). Applicants must have been awarded an undergraduate degree from a regionally accredited U.S. institution. Contact the College of Graduate Studies for the current year’s deadline.

Doctoral Fellowships

Doctoral fellows not only provide a service to the institution but also gain valuable experience through their special association with the faculty. Doctoral fellows are assigned to a research, teaching, or other appropriate work experience that is related to their academic program.

Normally, the doctoral fellow receives an appointment for a period of one calendar year beginning with the fall semester. To remain eligible for a fellowship, fellows must discharge their duties satisfactorily and maintain good academic standing in their coursework. Good academic standing for graduate students is a cumulative grade point average of at least 3.0 in graduate-level courses.

A student appointed as a doctoral fellow will be paid a stipend and receive tuition remission. Tuition remission includes:

- Up to 36sh of instructional fees during the combined fall and spring semesters and up to 12sh for the summer term (for graduate courses required to complete a single degree program) Note: Summer tuition remission require renewal of the appointment.
- Nonresident tuition surcharge.

Ph.D. Fellowships

The appointee to the Ph.D. in Materials Science and Engineering or the Ph.D. in Health Sciences Doctoral Fellowship is expected to devote a minimum of twenty hours per week to fellowship duties.

Doctoral fellows are required to be full-time graduate students as defined in the Graduate Catalog. Prior approval to carry more than twelve credit hours or fewer than nine credit hours in any one semester must be obtained from the department concerned and the dean of the College of Graduate Studies. When determining minimum course hours, degree credit coursework will include whatever courses are stipulated by the Ph.D. program coordinator to fulfill the requirements for the degree program.

Institutionally funded first-year doctoral fellowships carry a stipend of $23,500 for one calendar year. Continuing Ph.D. students, and those funded from external grants, may be awarded at a higher level, dependent upon the recommendation of the advisor, approval of the STEM or BCHHS dean, and availability of funds.

Ed.D. Fellowship

The Ed.D. Fellowship in Educational Leadership is awarded to outstanding doctoral students contributing and studying in the area of education. The Ed.D. Fellowship provides recipients with an academic year service appointment with the expectation of a minimum of twenty hours per week to fellowship duties. Normally, one fellowship is awarded per year.

Criteria:

- Full-time doctoral status
- Admitted to candidacy by date of application
- Outstanding scholarship
- Minimum 3.0 GPA

Doctoral fellows are required to be full-time graduate students as defined in the Graduate Catalog. Prior approval to carry more than twelve credit hours or fewer than nine credit hours in any one semester must be obtained from the department concerned and the dean of the College of Graduate Studies. When determining minimum course hours, degree credit coursework will include whatever courses are stipulated by the Ed.D. program coordinator to fulfill the requirements for the degree program.

Award:

The recipient will receive a fellowship stipend for the academic year in the amount of $10,000. The recipient will also receive tuition remission. Tuition remission includes:

- Up to 36sh of instructional fees during the combined fall and spring semesters and up to 12sh for the summer term (for graduate courses required to complete a single degree program) Note: Summer tuition remission require renewal of the appointment.
- Nonresident tuition surcharge.

Application and Selection Processes:

Submit letter of interest and letter of recommendation by April 30 for consideration for the following year. Along with a completed application (including scholarship statement), students are required to submit a CV/resume, and a letter of recommendation from a current Youngstown State University faculty member. All materials must be received by the deadline.
Financial Aid and Scholarships

Youngstown State University has a comprehensive program of financial assistance which includes assistantships/fellowships, scholarships, grants, work-study, and loans. Most of these programs are administered by the Office of Financial Aid and Scholarships.

Links to the following resources are conveniently located at the Office of Financial Aid and Scholarships' website Financial Aid and Scholarships (http://www.ysu.edu/content/office-financial-aid-and-scholarships/).

1. Free Application for Federal Student Aid (FAFSA): A common form used to apply for federal and state need-based grant and student loans.
2. Youngstown State University Scholarship Search: An online search engine to locate and apply for YSU-specific scholarship funds offered through the Youngstown State University Foundation.
3. Youngstown State University Foundation Scholarship Application: An online form application which, upon completion, considers students for a number of scholarships awarded through the YSU Foundation and its donors.

All YSU applicants for admission, or current students, seeking financial assistance through the Free Application for Federal Student Aid (FAFSA) should apply no later than December 1 for new students and February 15 for continuing students. Students interested in applying for institutional grants and scholarships should adhere to those individual deadlines as noted on their respective applications.

For maximum consideration, both new and continuing students are encouraged to meet priority deadlines in applying for financial aid.

Scholarships

Graduate Scholarship (new students only)

Graduate scholarships are available from the College of Graduate Studies for new graduate students accepted into a YSU graduate degree program.

Students enrolled in some online programs are ineligible for the Graduate Scholarship (See the list of these online programs (p. 203) on the Graduate Tuition Rates (p. 203) page).

Criteria for the scholarship

Cumulative undergraduate GPA of 3.5 or above

- All undergraduate coursework for the earned bachelor's degree will be included in determining the GPA.

Each scholarship is renewable for up to 6 semesters if the student maintains a 3.0 graduate GPA and completes a minimum of 6 semester hours of graduate courses each fall and spring semester.

The Graduate Scholarship is applied to the instructional fees only. Students receiving the College Credit Plus Instructor scholarship are ineligible for the Graduate Scholarship.

No scholarship application is required; however, this scholarship is competitive and will be distributed according to GPA until the allocation for each program is met. Students should apply for admission early as funds are limited. The award process begins in April for the following academic year.

The College of Graduate Studies supports the April 15th Resolution Regarding Graduate Scholars, Fellows, Trainees and Assistants of the Council of Graduate Schools. The resolution is available at: http://www.cgsnet.org/april-15-resolution/.

Amount: $500 - $1,000 to be credited toward the instructional fee each fall and spring semester if renewal requirements are met

Renewable: Yes

Dr. Eugene D. Scudder Graduate Student Teaching Scholarship

Dr. Eugene D. Scudder Graduate Student Teaching Scholarship is a cash award given to a chemistry graduate student for outstanding performance in teaching assignments. Students cannot apply for this scholarship.

Amount: $100

Awards Available: 1

Deadline Date: Not Applicable

Renewable: No

Contact: Counseling Department, 330-941-3257

Dr. Robert A. DiGiulio Scholarship

The Dr. Robert A. DiGiulio Scholarship is awarded to a graduate student in the Department of Counseling who has been accepted into the program. The recipient must demonstrate need and be a non-traditional female student over the age of 25 years. Student must have at least a 3.00 average in Departmental courses.

Amount: $500

Awards Available: 1

Deadline Date: February 1

Renewable: Information not available

Contact: Counseling Department, 330-941-3257

Gertrude Hendricks Family Life Scholarship

The Gertrude Hendricks Family Life Scholarship is available each year to a graduate student whose undergraduate major has afforded preparation for an effective contribution to the family life area. Application is by letter to the School of Graduate Studies and Research. The following information should be included: undergraduate major, degree, and year; other degree work, if any; current graduate program; career goal(s); a statement of how the Hendricks scholarship will help the student to achieve his or her goal(s); and a statement of how the scholarship will prepare the student for "an effective contribution to the family life area."

Amount: Varies

Awards Available: Varies

Deadline Date: February 1

Renewable: Yes

Contact: College of Graduate Studies, 330-941-3091

Doris Burdman Scholarship - Graduate

The Doris Burdman Scholarship - Graduate is awarded to a student enrolled in the Master of Social Work program who is maintaining a minimum 3.0 GPA. The recipient must have completed a minimum of 12 semester hours of graduate level social work courses by the semester the award is to be granted. The recipient must showcase a commitment and dedication to the social work field as demonstrated through completion of an essay.

Amount: $2,500

Awards Available: 1

Deadline Date: February 1

Renewable: No

Contact: Scholarship Committee Chairperson, Department of Social Work, 330-941-1598
Dr. James A. Reeder Graduate Scholarship
Dr. James A. Reeder Graduate Scholarship is awarded to a current chemistry graduate student who will be enrolled at YSU at least part-time during the next academic year. Students cannot apply for this scholarship.

Amount: Varies, minimum $500
Awards Available: 1
Deadline Date: Not applicable
Renewable: No
Contact: Chemistry Department for more information

Earl E. Edgar Memorial Scholarship
The Earl E. Edgar Memorial Scholarship is awarded to a graduate student studying the humanities. Applicant must be enrolled in the MA program in American Studies, English, or History; have regular admission status; and have at least half of the degree program requirements completed at the time of application. Application is by letter to the College of Graduate Studies. Selection is based on academic excellence and financial need.

Amount: Varies
Awards Available: Varies
Deadline Date: February 1
Renewable: Yes
Contact: College of Graduate Studies, 330-941-3091

ROTC Scholarship
Army ROTC is an elective curriculum you take along with your required college classes. It prepares you with the tools, training and experiences that will help you succeed in any competitive environment. Along with great leadership training, Army ROTC can pay for your college tuition, too. You will have a normal college student experience like everyone else on campus, but when you graduate, you will be an Officer in the Army. Recipients must pass a physical fitness test, be U.S. citizens, have a minimum 2.5 GPA and minimum ACT of 19 or SAT of 930.

Amount: Up to $12,000 per school year or $48,000 for 4 yrs
Awards Available: Not applicable
Deadline Date: Not applicable
Renewable: Yes, must be full-time with 2.5 GPA
Contact: Military Science Department at 330-941-3205

Martha K. Shuster Memorial Scholarships
Martha K. Shuster Memorial Scholarships are awarded in recognition of academic achievement in memory of a former YSU employee and Women’s Club president. Scholarships are available to one graduate student. Candidates must have completed one third of degree requirements and a minimum 3.5 GPA. Financial need may be considered and a short essay is required. More information can be found at the following website: www.ysu.edu/womensclub (http://www.ysu.edu/womensclub/).

On-Campus Student 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.

Graduate Degrees Granted

Doctor of Education,
Doctor of Nursing Practice,
Doctor of Philosophy,
Doctor of Physical Therapy,
Educational Specialist,
Master of Accountancy,
Master of Arts,
Master of Athletic Training,
Master of Business Administration,
Master of Computing and Information Systems,
Master of Education in Intervention Services,
Master of Fine Arts,
Master of Health and Human Services,
Master of Music,
Master of Public Health,
Master of Respiratory Care,
Master of Science,
Master of Science in Education,
Master of Science in Engineering,
Master of Science in Nursing,
Master of Social Work

Graduate Programs
The following graduate degree programs are offered by Youngstown State University.

Doctoral Degree Programs
• Doctor of Education in Educational Leadership
• Doctor of Nursing Practice
• Doctor of Philosophy in Health Sciences
• Doctor of Philosophy in Materials Science and Engineering
• Doctor of Physical Therapy

Educational Specialist Degree
• Educational Specialist in School Psychology

Master's Degree Programs
• Master of Accountancy
• Master of Arts in American Studies
• Master of Arts in Art Education
• Master of Arts in Economics
• Master of Arts in English
• Master of Arts in Financial Economics
Certificates

- Certificate in Aging Studies
- Certificate in Applied History
- Certificate in Biological Sciences
- Certificate in Data Analytics
- Certificate in Economics
- Certificate in English
- Certificate in Enterprise Resource Planning
- Certificate in Environmental Studies
- Certificate in Health Care Management
- Certificate in Health Informatics
- Certificate in Homeland Security
- Certificate in Instructional Communication
- Certificate in Literature for Children and Young Adults
- Certificate in Mathematics
- Certificate in Nurse Education
- Certificate in Principal Licensure
- Certificate in Superintendent Licensure
- Certificate in Public Health
- Certificate in Public Health Administration
- Certificate in Public Health Research
- Certificate in Professional and Technical Writing
- Certificate in Teaching English to Speakers of Other Languages (TESOL)
- Certificate in Teacher Leadership Endorsement
- Certificate in the Teaching of Literature
- Certificate in the Teaching of Writing
- Certificate in Working Class Studies
- Post-masters Family Nurse Practitioner Certificate Program
- Post-masters Adult-Gerontology Acute Care Nurse Practitioner Certificate
- Post-masters Family Nurse Practitioner Certificate Program
- Certificate in Principal Licensure

Doctor of Education in Educational Leadership

Program Coordinator
Dr. Charles Vergon
4103 Beeghly College of Liberal Arts, Social Sciences, and Education
(330) 941-1574
cbvergon@ysu.edu

Program Description

The Doctor of Education program in educational leadership provides terminal professional preparation for administrators in public and nonpublic schools and health and human service organizations. Professionals currently occupying leadership positions in other settings may also be considered for admission when space in the cohort permits. The program is also open to health-professionals for whom no terminal degree is available in their field but who desire a rigorous program of research and leadership studies. The program is designed to build the capacity of individuals to provide effective educational leadership in such organizational settings, with particular attention to enhancing efficiency, equity, and excellence.

The program focuses on the preparation of professionally committed practitioners who reflect the current state of knowledge and best practice in educational leadership. Central to the preparation of such professionals are the refinement and transmission of competencies in the areas of scholarship, instruction, leadership, management, external relations, and personal...
development. The program is delivered in a fully online format (https://online.ysu.edu/degrees/education/edd/educational-leadership/).

Students can also earn their doctorate degree in educational leadership with a superintendent licensure online (https://online.ysu.edu/degrees/education/edd/educational-leadership-superintendent-licensure/).

Students are expected to maintain continuous enrollment in the program. Students who fail to progress with their cohorts will have to await the normal core course rotation to enroll in missed courses. Students who are inactive for more than three terms will have to be readmitted to the program upon the Doctoral Admission Committee’s recommendation.

The Doctorate in Education program is administered by the Department of Teacher Education and Leadership Studies in the Beeghly College of Liberal Arts, Social Sciences, and Education.

Accreditation
The Ed.D. program in educational leadership is nationally recognized by the Educational Leadership Constituent Council. Education programs at Youngstown State University are accredited by the Council for the Accreditation of Educator Preparation.

Application Procedure
Program information may be obtained from the Department of Teacher Education and Leadership Studies. Application and financial aid information may be obtained from Graduate Admissions in Coffelt Hall. All application materials must be sent to Graduate Admissions. Please confirm all deadlines with Graduate Admissions. Because application deadlines and the professional mix in cohorts may vary from year to year, those interested in the program are encouraged to contact the department in advance of initiating the application process.

Residency
Concentrated effort, continuing peer and faculty interaction, and scholarly reflection relatively free from distraction are needed if the student is to develop a considered and mature vision of the profession. Each student is required to meet a minimum residency requirement of enrollment for 18 semester hours during the period of three consecutive semesters, including summer session(s). Residency may be accomplished by means of online enrollment. Dissertation credits may not be used to satisfy the residency requirement.

Special Notes
Departmental policies and procedures governing the operation of the Ed.D. program are set out in the program Administrative Handbook and Student Handbook.

All students who successfully complete a doctoral comprehensive examination will be required to enroll in every semester of their candidacy until graduation.

Graduate Studies policies concerning transfer credits, time limits, and other academic matters must be followed. See the General Information of the Graduate Catalog, the College of Graduate Studies Academic Policy Book, and graduate faculty minutes for current information.

With appropriate selection of concentration courses, this program may provide licensure in either principalship or superintendent or both in Ohio and/or Pennsylvania for educators that satisfy other requirements established by the university and the respective state departments of education.

Admission Requirements
Acceptance into the Ed.D. program reflects superior qualifications. Admission is based upon a competitive evaluation of applications against criteria established by the doctoral program faculty. Diversity among students in terms of race, gender, disability, geography, and professional discipline is desirable. In addition to the admission requirements of the College of Graduate Studies, applicants will be evaluated holistically for their likely success in the program based on the following weighted criteria:

**Professional Qualifications and Experience**
Submission of a detailed resume including:

- Professional Employment History indicating substantial administrative or leadership experience.
- Education and Professional Licenses, Certificates, and Endorsements
- Leadership Experience, Accomplishments, or Awards
- Community Service including Leadership, Collaboration, and Participation in Civic Projects
- Professional Publications and Presentations
- Professional Associations

**High Academic Achievement**
- A 3.25 GPA in an accredited master’s degree program in educational administration, health and human services, or closely allied field.
- If graduate GPA is below 3.25, the Graduate Record Exam is required with a combined score of 290 on the general tests completed within the last five years.

**Professional References**
The names, titles and contact information for 2 professional references. The references should be from individuals who have supervised you in leadership roles, but may include a university faculty member knowledgeable regarding your scholarly abilities.

**Writing sample**
Submission of one 750-word essay responding to a prompt provided when an individual initiates an application.

**Faculty Interview**
- At the request of the doctoral faculty, a virtual interview may be required when the initial screening based upon the standards previously listed warrants further assessment of the applicant’s likely success in the program.

**Degree Requirements**
The credit hours required for the Ed.D. in educational leadership consists of a minimum of 60 semester hours beyond the master’s degree. These include:

- 24 semester hours of doctoral educational leadership core courses,
- 9 semester hours of doctoral educational research core courses,
- 12 semester hours of electives,
- 3 semester hours of leadership internship or clinical practice, and
- 12 hours of dissertation studies.

A minimum of 45 semester hours of graduate credit beyond the master’s degree, exclusive of dissertation credits, must be earned at YSU. Students can transfer up to 15 semester hours of post-master’s work that satisfy program elective requirements into the doctoral program from other institutions. Transfer credits may be accepted upon recommendation of the Ed.D. program and approval of the Graduate College within the policies of the College of Graduate Studies.

See the Courses section of this catalog for required prerequisite study for each course. Certain courses reflect the particular vision of the YSU program and are to be completed at YSU. This information is noted in parentheses.
Areas of Specialization

There are several concentrations available to satisfy the elective requirements. These include: Public & Nonpublic School Leadership, Superintendent Licensure, Principal License, or Health & Human Services.

Public and Non-Public School Leadership

Select 6 s.h. minimum from courses related to leadership in public and non-public schools and 6 s.h. from courses related to teaching, learning, data-use in schools, or research. Elective requirements total 12 s.h.

Superintendent Licensure

Superintendent licensure consists of four 3 s.h. courses for a total of 12 s.h. that satisfies the elective requirement of the doctoral program. Candidates must also complete EDAD 7050 Clinical Practice that satisfies a doctoral clinical course requirement.

Clinical Practice in Educational Leadership

Select one of the following:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 7022</td>
<td>Clinical Experience 2: The Principalship (Elementary 7022E; Middle 7022M; or Secondary 7022S)</td>
<td>1-4</td>
</tr>
<tr>
<td>EDAD 7040</td>
<td>Clinical Practice for the Administrative Specialist</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7050</td>
<td>Clinical Experience: Superintendent</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours

33
Dissertation study

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>EDAD 8193</td>
<td>Seminar in Educational Research–Dissertation: Methodology</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 8194</td>
<td>Seminar in Educational Research – Dissertation: Data Collection &amp; Analysis</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 8195</td>
<td>Seminar in Educational Research: Dissertation: Results &amp; Discussion</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 8196</td>
<td>Seminar in Educational Research: Dissertation Defense</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Semester Hours**: 12

**TOTAL PROGRAM HOURS**: 15

Four one s.h. sessions of EDAD 7022 are required for Principal Licensure. The principal clinical requirement satisfies the clinical requirement for the Doctoral program. Candidates must purchase a TaskStream account at the beginning of their studies, which is necessary for our accreditation through The Council for the Accreditation of Educator Preparation (CAEP).

**Comprehensive Examinations**

All candidates must take and successfully pass the Comprehensive Examination which covers their coursework. Comprehensive examinations consist of a multiple-choice examination covering seven competencies assessing the candidate's command of the professional knowledge base associated with effective leadership. Satisfactory completion of these examinations qualifies the student as a candidate for the Ed.D. degree and signifies readiness to begin the dissertation study.

**Graduate Faculty**

- **Jane Beece**, Ed.D., Associate Professor
  - Organizational leadership; economics of education; program evaluation
- **Charles Jeffords**, Ed.D., Assistant Professor
  - Administrative practices; school and community relations; school finance
- **Karen H. Larwin**, Ph.D., Associate Professor
  - Assessment; research design and methodology; statistics

**Learning Outcomes**

In the Doctoral Program candidate performance is assessed across the following objectives with focus at the district level.

1. **Mission, Vision, and Improvement**: Candidates will be able to "collaboratively lead, design and implement a district mission, vision and process for continuous improvement that reflects a core set of values and priorities" (NELP, 2018, pg. 13).
2. **Ethics and Professional Norms**: Candidates will be able to "promote the current and future success and well-being of each student and adult by applying ethical decisions and cultivate and enact professional norms" (NELP, 2018, pg. 15).
3. **Equity, Inclusiveness, and Cultural Responsiveness**: Candidates will be able to "develop and maintain a supportive, equitable, culturally responsive and inclusive district culture" (NELP, 2018, pg. 18).
4. **Learning and Instruction**: Candidates will be able to "evaluate, develop, and implement coherent systems of curriculum, instruction, supports and assessment" (NELP, 2018, pg. 21).
5. **Community and External Leadership**: Candidates will be able to "engage families, community, and other constituents in the work of schools and the district and to advocate for district, student and community needs" (NELP, 2018, pg. 25).
6. **Operations and Management**: Candidates will be able to "develop, monitor, evaluate and manage data-informed and equitable district systems for operations, resources, and human capital management" (NELP, 2018, pg. 28).
7. **Policy, Governance, and Advocacy**: Candidates will be able to "cultivate relationships, lead collaborative decision making and governance, and represent and advocate for district needs in broader policy conversations" (NELP, 2018, pg. 31).
8. **Internship**: Candidates will be able to synthesize and apply the above outcomes through substantial, sustained, standards-based work in real district settings.

**Reference**


**Graduate Courses**

- **EDAD 6901 Instructional Leadership Beyond the Classroom** 3 s.h.
  - Teacher leaders will lead both from within their own classrooms and beyond, therefore it will be important to equip candidates with the knowledge and skills that will assist them in any leadership situation they may face. Candidates will be introduced to the theory and practice of teacher leadership in order to assist in building teacher commitment, teacher efficacy, teaching competence, and instructional practices. There will be an additional emphasis on developing teacher leaders, specifically in the areas of adult learning principles, reflective practice, and professional learning communities. Candidates will be introduced to the importance of self-directed teacher professional development, taking on leadership roles at school, district, state, and national levels, as well as learning how to lead in both formal and informal ways.

- **EDAD 6903 Building Capacity of Adult Learners** 3 s.h.
  - Learning is an extended, intricate, and lifelong process. Adult learners have a unique way of learning, one that varies from learning done in primary grades. As such, teacher leaders will need to have strong command of adult learning principles to effectively collaborate with others and assist adults in their own professional development. A study of current theories and research in the areas of social cognition, human development, interpersonal relationships, group processes, and motivation will assist candidates in meeting the needs of the adults they will work with. This course will be particularly helpful to those who mentor, lead professional development sessions, serve on building or district leadership teams, and participate in professional learning communities.

- **EDAD 6905 Culturally Responsive Teaching and Learning** 3 s.h.
  - Educational leaders must practice professional, ethical values of equity, integrity, honesty, fairness, and dignity. The purpose of this course is to build candidate knowledge and skills in the area of culturally responsive leadership. Candidates will develop the ability to promote collaboration with faculty, administration, families, and community members and partners. This course will help candidates lead in culturally competent ways in order to make necessary changes in curriculum, culture, and school policies and practices. Additionally, candidates will learn how to assist others in providing individual learning opportunities for students where diverse perspectives are welcomed in addressing challenges.
EDAD 6906  Data-Coaching and Decision Making  3 s.h.
The purpose of this course is to provide candidates with the knowledge and skills to understand and utilize data to identify school improvement needs and make informed decisions in making change. Specifically, the course will provide opportunity for candidates to learn the nature of multiple data sources to identify patterns, trends, and improvement needs, conduct descriptive analysis, monitor and correct progress, and assist in developing high quality assessments. Candidates will experience authentic data-driven decision making by accessing state, district, school, and a variety of other relevant data resources to conduct descriptive and inferential analysis of trends and needs.

EDAD 6915  Learning, Teaching, and Instructional Leadership  3 s.h.
Leadership behaviors and expectations intended to build teacher commitment, increase teaching competence, and improve the learning climate of students. The importance of and role that adult development and learning play in teacher leadership regarding curriculum and instruction decisions are stressed.

EDAD 6931  Leadership in Educational Organizations: Theory to Best Practices  3 s.h.
Significant theories, research, and professional practices in the leadership of schools and school systems. Detailed analysis of primary sources and application of sources to reflection on issues and problems of administrative practice.

EDAD 6933  Educational Leadership and Organizational Change  3 s.h.
This course reviews, examines, and critiques significant theories, research, and professional practice related to school leadership. This course reviews the main research, theories, and practices that have been proven to facilitate effective organizational leadership. Change theory and processes will be studied to acquire knowledge and skills that will aid the development, implementation, and evaluation of a continuous, responsive, sustainable, data-based school improvement process. This course examines the concept of educational change, the role of school leaders as agents of change, and alternative change models and strategies, including the importance in attaining outcomes intended when introducing new initiatives.

EDAD 6936  Culturally Responsive Leadership  3 s.h.
This course examines culturally responsive pedagogy (CRP), which is a philosophy to facilitate student engagement and academic success by incorporating student cultures, experiences, and identities into the curriculum so that students and teachers can become co-creators of classroom knowledge.

EDAD 6947  School Building Operations and Management  3 s.h.
Theories of leadership and school design that provide future principals with guides for action and behavior will be presented. Theories that shape personal decision-making processes that build schools as learning communities will be presented.

EDAD 6948  Data Driven School Improvement and Program Evaluation  3 s.h.
This course examines the integral impact data-informed decision management has on educational accountability and the efficacy of program initiatives that facilitate standards for improvement in the classroom, building, and district level. Comprehensive data retrieval, analysis, and interpretation are invaluable to promote equitable and culturally responsive leaders who foster not only school improvement, but also a climate where accountability for students reaches further than academic performance.

EDAD 6949  Legal and Ethical Issues in Public Administration  3 s.h.
Reviews the legal foundation of schools and educational policy through the review of cases, statutes, and constitutional provisions affecting the operation of elementary and secondary schools in the United States and explores the relationship between legal, ethical, and political issues in public administration. Acquaints educators with professional norms and ethical as well as legal standards, and means of identifying, evaluating, and making legal and ethical decisions, and modeling such behavior communicating and cultivating legal and ethical behavior in others.

EDAD 6952  School Finance and Budget Planning Processes  3 s.h.
This course focuses on an analysis of school funding on a state and local level. School budgeting, site-based management, and school business practices are major topics. An action research project is part of the course requirement.

EDAD 6954  Community Engagement and Collaborative Partnerships  3 s.h.
Within this course, candidates will explore, study, examine, and practice skills, which illustrate the role strategic marketing can play in building community support for schools and their programs. Within this context, candidates enrolled in this course will develop leadership perspectives that support school community collaboration and partnerships.

EDAD 6955  Professional Development and Human Resources  3 s.h.
In-depth examination of policies and practices designed to reconcile the interests of schools and the people who make them up. Topics include professional and staff development, equal employment, position description, recruitment, selection, performance appraisal, removal, compensation, and emerging issues.

EDAD 6975  Introduction to Administration Clinical Experience  3 s.h.
Designed to expand candidate’s knowledge of the nature, characteristics and demands associated with school administration and provide opportunity to develop skills and dispositions needed for administrative responsibilities. Includes focused field experiences embedded in various courses throughout the program. Requires candidates to perform a particular administrative function in school and community settings.

Prereq.: Completion of five of the following courses EDAD 6915, EDAD 6931, EDAD 6933, EDAD 6947, EDAD 6949, EDAD 6954, and EDAD 6955.

EDAD 6982  Independent Study/Action Research  1-3 s.h.
Individual investigation of advanced topics under the guidance of selected departmental faculty. May be repeated.

EDAD 6990  Seminar in Educational Administration  1-3 s.h.
A seminar designed for the development of particular skills and/or perspectives on a topic related to educational administration.

Prereq.: Admission to master’s degree program in educational administration.

EDAD 6993  Special Topics in Educational Administration  1-4 s.h.
A seminar designed for the development of particular skills and/or perspectives on a topic related to educational administration.

EDAD 7014  Data Driven School Improvement and Program Evaluation  3 s.h.
This course examines the integral impact data-informed decision management has on educational accountability and the efficacy of program initiatives that facilitate standards for improvement in the classroom, building, and district level. Comprehensive data retrieval, analysis, and interpretation are invaluable to promote equitable and culturally responsive leaders who foster not only school improvement, but also a climate where accountability for students reaches further than academic performance.

EDAD 7018  School Discipline and Student Support Services: Policies, Programs and Prevention Strategies  3 s.h.
Examines school discipline and youth problems that threaten student health, welfare, and safety and research-proven school programs for addressing such problems. Emphasizes the role of school leaders in developing and implementing comprehensive policies and student support programs.
EDAD 7019  Special Education Law and Policy  2 s.h.
Provides an introduction to schools as political systems and the values that shape educational politics and policymaking. Examines the concept of educational change, the role of school leaders including the importance of implementation in attaining outcomes intended when introducing new initiatives. Uses special education law as vehicle for exploring change in educational policy and practice. Reviews the rights of pre and elementary and secondary students with disabilities to a free and appropriate education through an examination of state and federal laws, regulations, guidance documents and judicial interpretations of the Individual with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. Explores issues of eligibility and evaluation; IEP development and student placement in LRE settings; related, assistive technology, and transition services; student discipline and behavior management; means of conflict or dispute resolution including mediation and due process hearings; as well as remedies available to parents for non-compliance under IDEA. 
Prereq.: Admission to the Master’s in Educational Administration Program.

EDAD 7020  Human Resource Leadership  3 s.h.
This course provides an in-depth examination of policies and practices designed to reconcile the interests of organizations (schools) and stakeholders (staff, faculty, and community). Topics include professional and staff development, equal employment, positions description, recruitment, selection, performance appraisal, removal, compensation, and emerging human resource issues.

EDAD 7022  Clinical Experience 2: The Principalship  1-4 s.h.
Completed in a school covered by teaching certificate or license. Second administrative clinical experience designed to highlight tasks. May be repeated for credit to fulfill program requirement.

EDAD 7022A  Clinical Experience: The Principalship-Elementary (E) Middle (M) Secondary (S)  1-4 s.h.
Completed in a school covered by teaching certificate or license. Second administrative clinical experience designed to highlight tasks. May be repeated for credit to fulfill program requirements.

EDAD 7022B  Clinical Experience: The Principalship-Elementary (E) Middle (M) Secondary (S)  1-4 s.h.
Completed in a school covered by teaching certificate or license. Second administrative clinical experience designed to highlight tasks. May be repeated for credit to fulfill program requirements. 1-4 s.h.

EDAD 7024  Collective Bargaining and Systems Issues in Human Resources Administration  3 s.h.

EDAD 7025  Educational Governance: Advanced Law and Policy Seminar  3 s.h.
Explores emergent legal developments affecting P-12 education systems and the role and limits of the law in promoting educational emergent reform. Reviews social science literature on governance issues and factors that affect the nature, degree, and rate of organizational compliance.

EDAD 7026  Technology and Facilities for Learning Organizations  3 s.h.
Due to increasing demands upon the educational facilities by the instructional use of technology and the need to prepare students for the world of work, facility management and integration of technology into the facility are examined.

EDAD 7035  The Superintendent and Evolving Ways of Looking at Leadership  3 s.h.
This course examines the role of superintendent in the administration of schools. Students will study leadership in complex social organizations so that they can apply current theory and research to their roles in complex, chaotic, educational environments.

EDAD 7040  Clinical Practice for the Administrative Specialist  3 s.h.
Candidates for administrative specialist licenses in areas of curriculum, instruction, and professional development or pupil services administration develop an individualized clinical plan and complete a set of tasks and an integrated project aligned with professional standards under the guidance of an appropriately licensed cooperating administrator. 
Prereq.: Candidates must have completed all or be currently enrolled in remaining courses that compose the requirement of respective specialist license.

EDAD 7050  Clinical Experience: Superintendency  3 s.h.
Candidates for the superintendency license are required to complete four tasks from the master syllabus at the district-wide level, supervised by a school superintendent. Major components are the complete analysis of the financial structure of the candidate’s school district and a system-level integrated project. 
Prereq.: Completion of three of the following four courses: EDAD 7024, EDAD 7025, EDAD 7026, EDAD 7035, and two years experience in a building-level administrative capacity or equivalent.

EDAD 7050A  Clinical Experience: Superintendency  1-3 s.h.
Candidates for the superintendency license are required to complete four tasks from the master syllabus at the district-wide level, supervised by a school superintendent. Major components are the complete analysis of the financial structure of the candidate’s school district and a system-level integrated project. 
Prereq.: Completion of three of the following four courses: EDAD 7024, EDAD 7025, EDAD 7026, EDAD 7035, and two years experience in a building-level administrative capacity or equivalent.

EDAD 7050B  Clinical Experience: Superintendency  1-3 s.h.
Candidates for the superintendency license are required to complete four tasks from the master syllabus at the district-wide level, supervised by a school superintendent. Major components are the complete analysis of the financial structure of the candidate’s school district and a system-level integrated project. 
Prereq.: Completion of three of the following four courses: EDAD 7024, EDAD 7025, EDAD 7026, EDAD 7035, and two years experience in a building-level administrative capacity or equivalent.

EDAD 8111  Advanced Research Design and Statistics  3 s.h.
An in-depth treatment of the major correlational, experimental, and quasi-experimental research designs and associated statistical analyses, including the design and analysis of surveys and factor analytic techniques. Experience in data analysis using SPSS or other statistical packages. 3 s.h. Cross listed with FOUN 8111. 
Prereq.: EDAD/FOUN 8104.

EDAD 8113  Theories of Inquiry  3 s.h.
Perspectives for critical analysis, investigation of ways of knowing, and an examination of criteria that have been used successfully for negotiating status and justifying claims within contested domains of inquiry. 3 s.h. 
Prereq.: FOUN 8104 and EDAD 8111/FOUN 8111. 
Cross listed with FOUN 8113.

EDAD 8122  Leadership in Education  3 s.h.
In this course students will critically analyze contemporary ways of thinking about leadership. As students examine their present paradigm of leadership, they will also analyze a reconfiguration of leadership that reflects developments in the new sciences and other fields. 
Prereq.: Admission to the doctoral program.

EDAD 8125  Educational Politics and Policymaking in the United States  3 s.h.
Reviews professional literature on politics and policy making at the local, state, and federal level, including the values, institutional actors, processes, and interest groups that shape educational policy. Explores means of identifying problems, analyzing policy alternatives, and measuring policy outcomes. 
Prereq.: Admission to the doctoral program.
EDAD 8130 Learning Processes and the Instructional Leader 3 s.h.
A study of current theories and research in the areas of cognition and learning, development and motivation that underlay approaches to teaching in any context.

EDAD 8135 Building Organizational Culture and Community Partnerships 3 s.h.
The Course EDAD 8135: Building Organizational Culture and Community Partnerships is designed in accordance with the National Educational Leadership Preparation (NELP) District Level Program Standards, Standard 5. Candidates in this educational leadership preparation course will learn to apply new knowledge and skills to engage families, communities, and related business partnerships to meet student and community cultural and environmental needs. An examination of the school and community culture will contribute to the essential objectives of the course. Crosslisted with: no Prereq. or Coreq.: noneh. Prereq.: none. Coreq.: none 3 s.

EDAD 8140 Seminar in Administrative Theory 3 s.h.
Extension of the administrator’s abilities to analyze professional problems, develop leadership strategies, and exercise sound decision making. Nontraditional (nonfunctionalist) theories are stressed, with emphasis on deconstructing and purposefully framing educational issues. Case studies strengthen the application of the theories. Prereq.: Admission to the doctoral program.

EDAD 8142 Educational Problem Solving and Ethical Decision Making 3 s.h.
This course will teach students how to make competent leadership decisions by applying and enforcing ethical standards with followers. Ethic is at the heart of leadership. Leaders must make every effort to make ethical decisions and foster ethical behavior among followers. In this course students will explore the ethical demands of leadership. We draw from many fields of research to help students make ethical decisions, lead with integrity, and create an ethical culture. This course is designed to increase students’ ethical competence and leadership abilities.

EDAD 8155 Seminar in Current Educational Issues 3 s.h.
Informing educational leaders about contextual issues of schools is necessary in order to understand and recognize that school reform, both at the time of its proposal and during the developmental stages of its implementation, is intended to ameliorate educational problems. Prereq.: Admission to the doctoral program.

EDAD 8180 Special Topics in Educational Leadership 1-3 s.h.
Selected topics for a focused study on problems, issues, or concerns that relate to educational leadership. Prereq.: Admission to the doctoral program.

EDAD 8185 Seminar in Educational Research/Dissertation Proposal 3 s.h.
The purpose of this course is to gain knowledge and skills in developing a research question and an appropriate methodology so that chapters I and II of a doctoral dissertation can be completed. Prereq.: FOUN 8104, FOUN 8112, and FOUN 8111.

EDAD 8190 Dissertation Study 1-9 s.h.
Covers the design, proposal, conduct, reporting, and defense of scholarly research that addresses a meaningful topic derived from and contributing significantly to the literature of the field. Prereq.: Completion of doctoral comprehensive examination.

EDAD 8191 Seminar in Educational Research--Dissertation: Review of Literature 2 s.h.
Students will build knowledge and skills in conducting a literature review to complete Chapter 2 of their dissertation. Writing will be broken down into manageable milestones, following the guidelines set forth by the YSU Educational Leadership Dissertation Guidelines and template. 2 s.h. Prereq.: Admission to EDD program in Educational Leadership.

EDAD 8196 Seminar in Educational Research: Dissertation Defense 2 s.h.
This course is for Doctoral Candidates who are near the end of the dissertation process. Doctoral Candidates will prepare their dissertation defense and successfully defend their dissertation proposal to their committee. Finally, they will prepare the final version of their dissertation and submit to the Graduate school. D. program in Educational Leadership. Prereq.: Admission to Ed.

EDAD 8931 Leadership in Educational Organizations 3 s.h.
Significant theories, research, and professional practices in the leadership of schools and school systems. Detailed analysis of primary sources and application of sources to reflection on issues and problems of administrative practice. D. program in Educational Leadership. Ed.D. students who have not taken EDAD 6949 are required to complete EDAD 8931 and include a supplemental, substantive course assignment involving original research using primary source materials in education law and policy. Prereq.: Admission to the Ed.

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.

FOUN 6901 Philosophical Analysis of Education 3 s.h.
A philosophical examination and critical reflection on educational theories, including a familiarization with historical contexts and socio/cultural conditions that fostered and related resistance to these theories.

FOUN 6902 Sociological Bases of Education 3 s.h.
Selected sociological concepts and theories will form the basis for a critical analysis of schooling. Special attention will be given to the emergence of schools and to how schools serve diverse populations.

FOUN 6904 Introduction to Educational Research 3 s.h.
Basic methodologies and techniques of educational research design and elementary statistical concepts are introduced. This course relies on critical thinking and analytical discourse for the examination and evaluation of research studies.

FOUN 6905 Educational Challenges in Historical Perspective 3 s.h.
Critical analysis of first-person and other historical accounts of teachers, students, communities, and school reforms as they inform curricular, professional, and social challenges that face educators in their communities today.

FOUN 6914 Statistical Methods in Education 3 s.h.
An introductory course in frequency distributions, measures of central tendency, measures of variability, calculations and meaning of percentiles, normal distribution theory, reliability and validity of measures, and basic statistical analysis. Prereq.: FOUN 6904.

FOUN 6982 Independent Study/Action Research 1-3 s.h.
Individual investigation of advanced topics under the guidance of selected department faculty. May be repeated.
FOUN 6990  Advanced Seminar in Foundations of Education  1-3 s.h.
Selected topics for an advanced study of a topic to be addressed from a sociological, historical, philosophical, assessment, or research perspective.
Prereq.: Completion of a master's degree or advanced licensure.

FOUN 6995  Workshop in the Foundations of Education  1-3 s.h.
A workshop designed for the development of particular skills and/or perspectives on a school-related topic.

FOUN 8102  Perspectives on Leadership Among Diverse Populations  3 s.h.
An explorative study of constructs and concepts of cultural diversity within groups based on notions of class, race, sex, ethnicity, ableness, and religion/spiritualities. Consideration of expectations and organizational practices as informed by diversity issues.
Prereq.: Doctoral admission and one of the following: FOUN 6901, FOUN 6902, or FOUN 6905.

FOUN 8104  Research Strategies in Educational Administration  3 s.h.
An examination of major research methodologies and a preview of the different paradigms and assumptions that underlie controlled disciplined inquiries. Techniques associated with particular methodologies in educational administration will be introduced, and their strengths and weaknesses will be analyzed.

FOUN 8111  Advanced Research Design and Statistics  3 s.h.
An in-depth treatment of the major correlational, experimental, and quasi-experimental research designs and associated statistical analyses, including the design and analysis of surveys and factor analytic techniques. Experience in data analysis using SPSS or other statistical packages. 3 s.h. Cross listed with EDAD 8111.
Prereq.: EDAD/FOUN 8104.

FOUN 8112  Qualitative Research for Educators  3 s.h.
Consideration of traditional and evolving qualitative methods and literature that apply to doctoral study of problems in teaching, school leadership, and school change.

FOUN 8113  Theories of Inquiry  3 s.h.
Perspectives for critical analysis, investigation of ways of knowing, and an examination of criteria that have been used successfully for negotiating status and justifying claims within contested domains of inquiry. 3 s.h.
Prereq.: FOUN 8104 and EDAD 8111/FOUN 8111.
Cross listed with EDAD 8113.

FOUN 8115  Schools Society Ideologies  3 s.h.

The Doctor of Nursing Practice (DNP) degree for Nurse Anesthetists is offered in affiliation with St. Elizabeth Health Center School for Nurse Anesthetists, Inc. The Certified Registered Nurse Anesthetist (CRNA) is an advanced practice registered nurse (APRN) who practices both autonomously and in collaboration with a variety of health providers on the interprofessional team to deliver high-quality, holistic, evidence-based anesthesia and pain care services. The CRNA cares for patients at all acuity levels across the lifespan in a variety of settings for procedures including, but not limited to, surgical, obstetrical, diagnostic, therapeutic, and pain management.

Admission Requirements

Admission Requirements

- Regular admission requires a cumulative undergraduate grade-point average of at least 3.0 (on a 4.0 scale);
- Satisfactory completion of undergraduate courses in health assessment, statistics, and research methods;
- Hold a BSN degree from an accredited program;
- Current Registered Nurse license and a minimum of one-year professional work experience in a critical care unit, CCRN preferred;
- Current CPR certification, current immunizations, drug screening and criminal background checks are to be maintained while in the program;
- Submission of an official report of Graduate Record Examination (General Test) scores completed within the past five years;
- Successful/satisfactory interview; and
- Students not meeting regular admission requirements may be provisionally admitted. See the Graduate Bulletin under Provisional Admission.

Degree Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
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<tr>
<td>NURS 8900</td>
<td>Pharmacology for Nurse Anesthetists 1</td>
<td>3</td>
</tr>
<tr>
<td>NURS 8901</td>
<td>Anatomy, Physiology and Pathophysiology for Nurse Anesthetists 1</td>
<td>3</td>
</tr>
<tr>
<td>NURS 8902</td>
<td>Healthcare Biostatistics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 8903</td>
<td>Professional Role of Nurse Anesthesia Practice</td>
<td>2</td>
</tr>
</tbody>
</table>
Learning Outcomes

The outcomes for the YSU DNP program are in compliance with the standards of the AACN eight essential elements as identified in The Essentials of Doctoral Education for Advanced Nursing Practice. (AACN, 2007). The YSU DNP program outcomes are listed below.

1. Synthesize knowledge derived from a strong scientific foundation in order to demonstrate expertise in advanced nursing practice.
2. Analyze and translate research and data to support evidence-based practice.
3. Lead interprofessional collaboration to enhance and improve population health outcomes.
4. Utilize information systems and technology to improve health care.
5. Develop, influence or implement health care policies.

Graduate Faculty

**Kimberly A. Ballone**, D.N.P., Professor
Pediatric issues; children and families; simulation in nursing education; motivating nursing students; preceptorships

**Patricia L. Hoyson**, Ph.D., Professor
Diabetes; critical thinking; patient education; nursing education

**Amy Weaver**, Ph.D., Associate Professor
Geriatric education; geriatrics; simulation

**Valerie Marie O'Dell**, D.N.P., Professor
Maternal-child nursing; simulation scenario development; nursing education

**Cynthia M. Shields**, D.N.P., Associate Professor
Critical care nursing; nurse practitioner education and practice

**Nancy Wagner**, D.N.P., Professor, Director
Pediatrics; educational research/simulation; transcultural

**Doctor of Philosophy in Health Sciences**

Program Director
Ken Learman, PhD, PT

Director, PhD in Health Sciences
Professor, Physical Therapy
kleaman@ysu.edu

**Mission:**

To prepare the next generation of academics who are excellent researchers, instructors, and are prepared to serve Northeast Ohio and beyond.

**Vision:**

We aspire to become the premier choice for doctoral preparation of healthcare professionals seeking to transition from the clinic to the classroom or research lab.

**Admissions requirements:**

Adequacy of students

The Ph.D. in Health Sciences is designed to accept students who possess a bachelor’s, master’s or a clinical doctorate degree. The bachelor’s and master’s degrees considered should be health related, but will consider students with a basic science degree (ex. biology) if there is an established interest in healthcare. Additionally, there has been a track established for the current entry-level DPT students at YSU to enter a dual DPT/Ph.D. track at the end of their first year in the DPT program. All applicants to the program will be evaluated against the following admission criteria:

- Student with an interest in the Health Sciences and an interest in pursuing employment in academia, research, or clinical practice.
- Minimum overall 3.0 GPA from a bachelor’s or master’s degree.
- Exceptions will be considered on an individual basis for a GPA of 2.7-2.99. This will mandate a provisional admission.
- Graduate Record Examination (GRE) will be required for applicants who are required by the field, a current license to practice.
- 3 letters of reference.
- Personal essay of why you are pursuing this degree and what area of research you are intending to pursue.

All applicants applying with a current graduate degree will not be required to take the GRE but will be required to provide 1 example of academic writing score are recommended.

**Critical thinking; nursing simulation; medical-surgical nursing**

**Doctor of Philosophy in Health Sciences**

Program Director

Ken Learman, PhD, PT

Director, PhD in Health Sciences

Professor, Physical Therapy

kleaman@ysu.edu
A TOEFL score of at least 550 on a paper-based test, the equivalent score on a similar test, or an undergraduate degree from a university in the US.

Admissions will be completed by considering the student's individual research agenda as well as compatibility and availability of faculty to serve on dissertation committees.

**Graduate Faculty**

- **James A. Benedict**, PT, Ph.D., Associate Professor
  Healthcare policy; pro bono care; vulnerable populations

- **Matthew Campbell**, Ph.D., ATC, Assistant Professor
  Experiential learning in athletic training education; clinical education, youth sports, physical literacy/motor learning; social justice issues in athletic training and athletic training education

- **Cara A. Carramusa**, Ed.D., PT, M.S., GCS, Assistant Professor
  PT education research: employability skills and professional dispositions/identity, teaching and learning, clinical education; older adults: fall risk management/prevention, active aging, population health/socialization of the physical therapy profession

- **Chad Cook**
  Clinical examination and conservative or surgical treatment of orthopedics

- **Richard Albert Deschenes, Jr.**, Ph.D., Assistant Professor
  Materials science; concrete durability and materials; applied mechanics

- **Debbie Espy**
  Human movement science; neurological rehab; biomedical engineering

- **David William Griswold**, D.P.T., Ph.D., Associate Professor
  Concussion management; vestibular rehabilitation; effects of manual therapy on pain and disability for orthopedic conditions; physiological and clinical effects from dry needling

- **John M. Hazy**, Ph.D., Professor, Chair
  Community/behavioral health (drugs and crime); methodology and assessment; life course and cultural issues; teaching effectiveness

- **Nancy Crum Landgraf**, PT, Ph.D., Professor, Chair
  Stroke rehabilitation and outcomes

- **Kenneth Learman**, PT, Ph.D., Professor
  Physical therapy interventions for the spine; concussion management; chronic pain phenotyping; headache differentiation

- **Linda Pax Lowes**
  Pediatric Physical Therapy; neurological rehab

- **Rachael J. Pohle-Krauza**, Ph.D., Professor
  Nutrition

- **Richard Lee Rogers**, Ph.D., Associate Professor
  Social problems and criminology; organizational and economic sociology; statistics and research methods; social history; Anglo-American religious movements; ecological analysis

- **Annie Q. Tapp**, D.P.T., Assistant Professor

**Degree Requirements**

Candidates that enroll with a bachelor’s degree will complete all core courses (60 s.h.) and an additional 30 s.h. as approved by the Program Director. These courses can be an individualized plan using existing master's courses in the College of Health and Human Services, the Gerontology program, other master's courses, or Concentration Course Electives in the Ph.D. program.

**Learning Outcomes**

By graduation from the Doctor of Philosophy in Health Sciences program, students will:

1. Propose a research study utilizing appropriate statistical or assessment techniques to answer a question based on an identified gap in the literature.
2. Apply scientific evidence to specific patient/client cases in their fields.
3. Explain how psychosocial and mental & behavioral factors impact healthcare outcomes of various disease processes relate to their area of research.
4. Design a study to answer an original research question regarding the teaching andragogy in Health Sciences education.
5. Communicate their original research both verbally and through manuscripts submitted for publication in academic journals.
6. Apply interdisciplinary research skills to solve current and future problems as professionals in Health Sciences.

**Doctor of Philosophy in Materials Science and Engineering**

**Program Coordinator**

Dr. Clovis A. Linkous
5001 Ward Beecher Science Hall
(330) 941-1958
calinkous@ysu.edu
Program Description
The Doctor of Philosophy (Ph.D.) in Materials Science and Engineering is a cutting-edge program, employing state-of-the-art analytical materials instrumentation not found anywhere else in the area between Cleveland and Pittsburgh. Incorporating the research activities from the YSU Center of Excellence in Materials Science and Engineering (CEMSE) and the Ohio Hub for Innovation and Opportunity in Advanced Materials Commercialization, this program promotes the synergistic interaction of industrially focused research efforts of faculty, students, and commercial research partners leading to economic development of the region. The Ph.D. is specifically targeted at producing graduates who can find employment as industrial research scientists or engineers.

Application Procedure
Program information may be obtained from the College of Science, Technology, Engineering and Mathematics and from the Ph.D. Program (http://www.ysu.edu/academics/science-technology-engineering-mathematics/materials-science-and-engineering-phd/) webpage. Application information may be obtained from The Office of Graduate Admissions in Coffelt Hall (http://www.ysu.edu/gradcollege/) and from Ph.D. Program admission (http://cms.ysu.edu/college-graduate-studies/domestic-admissions/) webpage. All application materials must be submitted through the online application system. (https://ysu.elluciancmrecruit.com/admissions/pages/welcome.aspx)

Application Requirements
Students with a B.S. or M.S. in materials science, materials engineering, or related fields (including chemistry, physics, or mechanical, chemical, electrical or civil engineering) can be admitted through the College of Graduate Studies on a competitive basis up to the capacity of the program.

Requirements for admission to the Ph.D. program include the following:

- B.S. or M.S. degree in materials science, materials engineering, or related fields (including chemistry, physics, or mechanical, chemical, electrical or civil engineering);
- Cumulative undergraduate grade-point average of at least 3.0 on a 4.0 scale, or a graduate GPA of 3.3/4.0;
- GRE scores are required. Scores in the following ranges generally reviewed favorably: Verbal = 500-800, Quantitative = 650-800, and Analytical Writing = 4.0-6.0;
- For students whose native language is not English, a TOEFL score of 550 (or comparable score on a similar test);
- Completed application (application link);
- Resume;
- Statement of intent;
- 3 references.

All applications will be reviewed by an admissions committee consisting of the program director and a group of program faculty of sufficient breadth to interpret the credentials of all members of the applicant pool. The selection/admission process is competitive; meeting eligibility criteria does not assure admission into the program. Applications received as complete by February 1st will have full consideration for fall admissions and graduate assistant opportunities.

Graduate Faculty
Farzad Ahmadi, Ph.D., Assistant Professor
Flexible wearable electronics; liquid additive manufacturing; low-loss magnetic materials; 3D printed sensors; embedded systems.

Snjezana Balaz, Ph.D., Assistant Professor
Structure of surfaces of thin films, semiconductors, and nanoclusters

Kyosung Choo, Ph.D., Associate Professor
Heat and mass transfer; multiphase flow; phase change phenomena; data center cooling; energy audit of buildings; microchannel heat exchangers; linear friction welding; laser welding; kinetics of human body performance

Pedro Cortes, Ph.D., Associate Professor
Structure-property relationships of polymers; composites and hybrid materials; smart materials and structures; development of chem-bio sensing platforms based on carbon nanotubes

Douglas T. Genna, Ph.D., Associate Professor
Metal-organic frameworks; synthesis of new materials; mechanistic investigations of self-assembly; targeted materials for water and blood detoxification

Clovis Linkous, Ph.D., Professor
Ceramic electrolytes, polymer membrane electrolytes, solid state hydrogen storage, photovoltaic materials, photocatalysis; flexible and optically transparent conductors

Eric MacDonald, Ph.D., Professor
3D printed multi-functional applications and closed-loop control in additive manufacturing with instrumentation and computer vision for improved quality and yield

Holly J. Martin, Ph.D., Associate Professor
Corrosion studies; modification of metal surfaces to strongly adhere polymeric coatings for corrosion resistance

Tom Nelson Oder, Ph.D., Professor
Micro/nano fabrication and characterization of electronic and opto-electronic devices of wide band gap semiconductors: SiC, group III-nitrides, ZnO

Byung-Wook Park, Ph.D., Assistant Professor
Engineered biohybrid materials for biomedical applications; biohybrid microswimmers for drug delivery and bioimaging; wearable bioelectronics for chronic wound monitoring; smart wound dressing

Donald Priour, Ph.D., Associate Professor
Theoretical condensed matter physics, particularly related to systems of technological relevance where the flow of charge or fluid is modified or inhibited by disorder in the form of random inhomogeneities or severe wires or bonds

Jae Joong Ryu, Ph.D., Associate Professor
Effect of process induced anisotropic microstructure on sliding contact fatigue damage of titanium alloy joint implants; mechanical load assisted dissolution response of medical grade metals and alloys

Virgil C. Solomon, Ph.D., Professor
Synthesis of shape memory alloys, ceramic-metal composites and nanostructures and their characterization using metallography, thermal analysis and analytical scanning and transmission electron microscopy techniques

Timothy R. Wagner, Ph.D., Professor, Chair
Synthesis of inorganic oxide and mixed-anion materials; structure characterizations using single crystal and powder X-ray diffraction; electron microscopy techniques

Degree Requirements
- 90 Semester Hours of Graduate Study
- Qualifying exam, based on the topics presented in the core curriculum, following the second year of study.
- Recommended internship program, usually through full-time paid employment at a partner company.
- Written research proposal, describing the work to be completed for the dissertation. The proposal will be presented orally and defended in front of the dissertation committee.
• Oral presentation of research accomplishments, approximately mid-way through the dissertation research at Seminar.
• Dissertation defended orally to the dissertation committee, which will also approve the final written document. Completion of the dissertation is the culminating experience of the Ph.D. program.

Coursework

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MATL 6982</td>
<td>Graduate Research</td>
<td></td>
</tr>
<tr>
<td>MATL 8060</td>
<td>Dissertation</td>
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</tr>
</tbody>
</table>

Electives

Select 12 s.h. of Electives. 12

Total Semester Hours 90

Special Notes

College of Graduate Studies policies concerning transfer credits, time limits, and other academic matters must be followed.


Learning Outcomes

• The student will have developed a fundamental understanding of the structure of matter at the atomic/molecular level, particularly in the solid state, and its influence on the physical and chemical properties of a substance.
• The student will have developed a familiarity with the instrumental tools of materials research, including microscopy, spectroscopy, and mechanical testing.
• The student will have developed the personal organizational and disciplinary skills to grasp a research problem involving a lengthy program of investigation, break it down into a sequence of tasks, and follow them through to a conclusion.
• The student will have developed sufficient writing skills to prepare laboratory reports, research papers, journal articles, and an organized dissertation comprising a hundred pages or more.

Graduate Courses

MATL 6982 Graduate Research 1-6 s.h.
Individual investigation of advanced topics under the guidance of selected program faculty. May be repeated for a maximum of 30 semester hours.

MATL 6990 Seminar in Materials Science and Engineering 1 s.h.
Presentations of ongoing research in materials science and engineering. Includes presentations by guest speakers, faculty and graduate students. May be repeated for a maximum of 3 semester hours.

MATL 7010 Analytical Methods for Materials Science 1 3 s.h.
A laboratory course where the student will receive hands-on training with instruments commonly used in materials research. Techniques covered include electrical response methods, spectroscopic methods, X-ray techniques, and thermal analysis and surface profiling techniques. (2 hour lecture/3 hour lab).

MATL 7020 Analytical Methods for Materials Science 2 3 s.h.
A laboratory course where the student will receive hands-on training with instruments commonly used in materials research. Instruments covered include light microscopes, scanning electron microscopes, transmission electron microscope, focused ion beam, X-ray photoelectron spectrometer, Auger spectrometer, X-ray microscope, and dynamic mechanical analyzer. (2 hour lecture/3 hour lab).

MATL 8010 Structure of Materials 3 s.h.
A study of the structure/property relationship of materials at the electronic, atomic, and molecular level. Using quantum chemistry, symmetry, chemical bonding and electrochemistry, this course will introduce the student to the classification and properties of amorphous, crystalline, and semi-crystalline structures including metals, semiconductors, ceramics, polymers, and hybrid materials. The properties to be studied include mechanical, thermal, electrical, and magnetic properties.

MATL 8020 Mechanical Properties of Materials 3 s.h.
This course addresses the mechanical behavior of materials, assuming knowledge of elasticity, plasticity, fracture and creep, and aims to provide a robust analytical treatment of these topics across size scales and material types. The course is split into three sections: (a) Continuum mechanics, (b) Advanced phenomena in mechanics of materials, and (c) Case studies focused on the design and processing of materials.
Prereq.: MATL 8010.

MATL 8030 Thermodynamics and Phase Behavior 3 s.h.
Detailed examination of chemical equilibria and chemical changes with an emphasis on the theoretical basis for these phenomena and the properties of phase diagrams. The use of computer models for chemical equilibrium calculations utilizing extensive thermodynamic databases.

MATL 8040 Kinetics, Diffusion, and Rate Processes 3 s.h.
Essential topics covered include diffusion in solids and liquids; complex motion of dislocations and interfaces; complex kinetics of phenomena such as phase transformations and morphological evolution; and the rate at which these and other kinetic phenomena occur.
Prereq.: MATL 8030.

MATL 8050 Materials Internship 1–6 s.h.
Supervised experience in approved external industrial, government lab, or other comparable environment, working on advanced problems in materials. For materials science and engineering doctoral students or by permission of program coordinator. May be repeated for a maximum of 6 semester hours.
Prereq.: MATL 8020.

MATL 8060 Dissertation 1–9 s.h.
Design, proposal, completion, and reporting of scholarly research deemed acceptable to the program faculty. Culminates in an oral presentation to dissertation committee.
Prereq.: completion of qualifying exam and research proposal.

Doctor of Physical Therapy

Department Chair
Dr. Nancy Landgraff
B311 Cushwa Hall
(330) 941-2703
nlandgraff@ysu.edu
Welcome

Welcome! Our entry-level Doctor of Physical Therapy (DPT) Program offers academically-talented students an opportunity to join a profession that contributes in countless ways to movement and health.

We are proud of the quality of our faculty and students. We have well-credentialed faculty—many hold doctorates and/or advanced specializations. Many of our courses are taught by faculty in a case-based approach that gives students hands-on experience. Students will keep current with practice challenges and learn to think critically.

Admissions are selective. The Admission to the Physical Therapy program is competitive. Meeting eligibility requirements does not guarantee admission. Admissions are selective. The Admissions Committee will be overwhelmed by the number of applications and must select students who are best able to meet the University's and program's academic, professional, and personal standards.

Students not making satisfactory progress may be required to repeat that year or be dismissed based on established standards. Students not making satisfactory progress may be required to repeat that year or be dismissed based on established standards.

Mission Statement

The YSU Physical Therapy Program provides unique academic experiences creating Physical Therapists and doctoral graduates committed to excellence, collaboration, diversity, and service.

Program Description

The Doctor of Physical Therapy program is a professional program for the preparation of physical therapists. The program is an entry-level, postbaccalaureate program consistent with the accreditation requirements of the Commission on Accreditation in Physical Therapy Education (CAPTE). Admissions to the program are competitive. Meeting eligibility requirements does not guarantee admission. Admissions are selective. The admission deadline will be posted on the Physical Therapy website (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/physical-therapy-dpt/).

Admission Requirements

Admissions to the Physical Therapy program are competitive. Meeting eligibility standards does not guarantee admission. Admissions are selective. The admission deadline will be posted on the Physical Therapy website (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/physical-therapy-dpt/).

Students should apply to the physical therapy program if the following eligibility requirements are met:

1. A minimum overall GPA of 3.2 on a 4.0 grading scale.
2. A 3.0 GPA in prerequisite courses. A minimum of 6 courses completed prior to applying. All prerequisite courses must be completed with "C" or better. See the Physical Therapy website (http://www.ysu.edu/academics/bitonte-college-health-and-human-services/physical-therapy-dpt/) for specific prerequisite requirements.
3. Completion of a bachelor's degree, and all prerequisite courses, prior to starting the program.
4. A recommended GRE score of at least 295 on Part I and 4.0 on Part II.
5. Documentation of 40 observation hours (paid or volunteer) under the direct supervision of a physical therapist(s) in a physical therapy setting. Two sites are recommended.
6. References: 3 total, a combination of physical therapists and faculty.

In certain circumstances, Youngstown State University students may be provisionally accepted into the D.P.T. program as undergraduates during the summer semester of their senior year. They are not, however, admitted as graduate students until their application for graduate program admission has been accepted and approved and they are admitted to the College of Graduate Studies. Under no circumstances will this admission take place prior to their receipt of the bachelor's degree.

Accreditation Information

The Doctor of Physical Therapy Program at Youngstown State University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Suite 100 Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: accreditation@apta.org; website: http://www.capteonline.org (http://www.capteonline.org/).

Current accreditation was granted in 2014 for 10 years. The next accreditation visit will be in 2024.

National Physical Therapy Examination pass rate is 98%.

Degree Requirements

There are three areas of program requirements that must be satisfactorily completed to be granted the D.P.T. degree:

- professional coursework,
- professional conduct,
- clinical affiliations.

Students not making satisfactory progress may be required to repeat that year of the program or be dismissed based on established standards.

There are three levels of coursework in the D.P.T. program.

<table>
<thead>
<tr>
<th>COURSE</th>
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<td>PHYT 8810</td>
<td>Human Gross Anatomy</td>
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<tr>
<td>PHYT 8800</td>
<td>Clinical Pathology 1</td>
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</tr>
<tr>
<td>PHYT 8801</td>
<td>Clinical Pathology 2</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 8942</td>
<td>Mental and Behavioral Aspects of Healthcare</td>
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<td>PHYT 8901</td>
<td>Clinical Decision Making 1</td>
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<td>PHYT 8902</td>
<td>Functional Anatomy</td>
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<td>PHYT 8904</td>
<td>Integrated Clinical Education Experience</td>
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<td>PHYT 8905</td>
<td>Clinical Decision Making 2</td>
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<tr>
<td>PHYT 8907</td>
<td>Special Topics: Pediatrics</td>
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<td>PHYT 8909</td>
<td>Clinical Decision Making 3</td>
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<td>PHYT 8911</td>
<td>Special Topics: Geriatrics</td>
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<tr>
<td>PHYT 8913</td>
<td>Management and Leadership in Physical Therapy</td>
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<td>PHYT 8914</td>
<td>Clinical Education 2</td>
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<td>PHYT 8916</td>
<td>Critical Inquiry in Physical Therapy</td>
<td>3</td>
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<tr>
<td>PHYT 8918</td>
<td>Professional Issues</td>
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<td>PHYT 8919</td>
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<td>PHYT 8920</td>
<td>Clinical Education 4</td>
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<td>PHYT 8923</td>
<td>Community Applications</td>
<td>3</td>
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<td>PHYT 8925</td>
<td>Applied Neuroscience for Physical Therapists</td>
<td>4</td>
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<tr>
<td>PHYT 8929</td>
<td>Clinical Decision Making 3: Advanced Cases</td>
<td>3</td>
</tr>
<tr>
<td>PHYT 8933</td>
<td>Clinical Foundation Skills</td>
<td>4</td>
</tr>
</tbody>
</table>
Learning Outcomes

1. Students will be able to formulate a differential diagnosis regarding a patient and judge if a patient is appropriate for physical therapy evaluation and treatment.
2. Students will be able to effectively plan, organize, implement and assess a plan of care for a patient/client of all complexities of movement system problems across all contexts of care.
3. Students will be able to provide effective patient and family education regarding the physical therapy intervention and the patient’s pathology.
4. Students will demonstrate ongoing commitment to professional conduct consistent with the APTA core values.
5. Students will effectively relate the scientific evidence to patient cases and physical therapy questions.
6. Students will apply knowledge of laws and ethics to patient management.
7. Students will be able to discuss the impact of the changing Healthcare environment on Physical Therapy practice and formulate appropriate responses.
8. Students will demonstrate effective verbal and written communication skills.

Graduate Courses

**PHYT 8800  Clinical Pathology 1  3 s.h.**
Study basic concepts of clinical pathology, imaging, histology, and pharmacology used in Physical Therapists clinical decision making. Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment.

**PHYT 8801  Clinical Pathology 2  3 s.h.**
Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment.

**PHYT 8810  Human Gross Anatomy  6 s.h.**
Knowledge of anatomy is essential in the practice of healthcare. In this course we will concentrate on the study of human gross anatomy, which includes the structure of the body and body parts that can be studied with the unaided eye. This course will include examination of the musculoskeletal, nervous and circulatory systems. This course will primarily encompass structural and functional relationships with clinical perspectives that relate to healthcare. 
Prereq.: BIOL 3705.

**PHYT 8901  Clinical Decision Making 1  4 s.h.**
Decision-making process for clinical management of uncomplicated cases in practice patterns. Emphasis on posture and movement assessment, safety, body mechanics, and monitoring physiological status.
Prereq.: Admission to DPT program.

**PHYT 8902  Functional Anatomy  4 s.h.**
Study of kinetics, kinematic variables, and mechanical properties of tissue; motion analysis: posture, gait and functional activities; environmental contexts and constraints, and life span applications.
Prereq.: Admission to DPT program.

**PHYT 8904  Integrated Clinical Education Experience  6 s.h.**
Integrated first-time clinical education experience encompassing examination, evaluation, treatment, and documentation of patients in four distinct practice settings (Acute Care, Outpatient, Skilled Nursing, and Inpatient Rehabilitation). It is a full-time, 4-week experience based in a collaborative learning model in which a cohort of 3-4 DPT students will complete a 1-week rotation through each of the settings under the supervision and instruction of licensed physical therapists. CPR certification (American Heart Association), required inoculations, annual physical exam, proof of health insurance, and any other requirements as set forth by the affiliating clinical sites.
Prereq.: All previous course work and permission of the DCE.

**PHYT 8905  Clinical Decision Making 2  6 s.h.**
Decision making process for clinical management of both routine and less common cases in practice patterns. Emphasis on outcomes research, personnel supervision, individualized and culturally-sensitive intervention, and program design.
Prereq.: Admission to DPT program.

**PHYT 8906  Critical Inquiry 1  3 s.h.**
Develop skills needed to create and answer clinical questions including: use of technology to obtain information: evaluation and application of the information for decision making. Examine the application of current literature to clinical decision making. Emphasis on written research communication methods: scientific writing, documentation and literature reviews. Examine the use of qualitative, quantitative and non-experimental research in health care that are used to inform physical therapy practices. Introduction of group research projects as a means of clinical inquiry.

**PHYT 8907  Special Topics: Pediatrics  3 s.h.**
Theories of human growth and development and application to typical and atypical motor development and illnesses or injuries of children. Clinical management of cases across the practice patterns with emphasis on family/caregiver participation, team approach, and setting-specific expectations.
Prereq.: Admission to DPT program.

**PHYT 8911  Special Topics: Geriatrics  2 s.h.**
Theories of life span development and human aging with application to systems development and dysfunction. Emphasis on prevention, well elderly, and illnesses/injuries common to the elderly. Clinical management of cases, considering functional goals; cognition; pharmacology; and reimbursement issues.
Prereq.: Admission to DPT program.

**PHYT 8913  Management and Leadership in Physical Therapy  2 s.h.**
Theories of resource planning, management strategies for utilizing resources (human, information, fiscal, and space/equipment) for health care delivery, and clinical management issues in various physical therapy settings.
Prereq.: Admission to DPT program.

**PHYT 8914  Clinical Education 2  4 s.h.**
Second clinical experience in evaluating and treating a diverse caseload of illness/injury prevention, posture and movement dysfunction, and specialty practice. Includes supervision of support personnel, interprofessional evaluation and treatment, and administrative tasks. Six week full-time experience. Grading is S/U.
Prereq.: Admission to the DPT program.
PHYT 8916  Critical Inquiry in Physical Therapy  3 s.h.
Student groups will analyze datasets and write up manuscripts for the methods, results and some discussion. Groups will peer review these written reports. Student groups will then revise the report and design a clinically-related project based on the findings of the project. Emphasis will be given to formal research proposals, clinical applications, and resources for project implementation.
Prereq.: Admission to the DPT program.

PHYT 8918  Professional Issues  2 s.h.
Discussion of professional topics related to entry-level practice, such as leadership, interagency and interprofessional collaboration, future trends and technologies, and opportunities for professional growth.
Prereq.: Admission to DPT program.

PHYT 8919  Clinical Education 3  6 s.h.
Continuation of clinical experience in evaluating and treating a diverse caseload illness/injury prevention, posture and movement dysfunction, and specialty practice. Includes supervision of personnel, inter professional practice, administrative tasks, and effective time management. Nine week, full-time experience. Grading is S/U.
Prereq.: Admission to DPT.

PHYT 8920  Clinical Education 4  12 s.h.
Final clinical experience in evaluating and treating a diverse caseload of illness/injury prevention, posture and movement dysfunction, and specialty practice. Collaborative client-oriented practice, professional conduct, and professional development. Fifteen weeks of full-time experience. Grading is S/U. 12 s.h.,
Prereq.: Admission to DPT program.

PHYT 8921  Evidence Based Practice in Health Sciences  3 s.h.
This course will help the student develop skills needed to formulate and answer clinical questions including: use of technology to obtain information, evaluation and application of the information for decision making needed to answer questions. Examine the application of current literature to clinical decision-making. Emphasis on written research communication methods: scientific writing, documentation and literature reviews.
Prereq.: Admission to DPT program, Admission to the PhD in Health Sciences.

PHYT 8922  Research 1-6 s.h.
Research under the supervision of a graduate faculty member. May be repeated for a total of six semester hours.
Prereq.: Admission to DPT program, and permission of instructor and department chair.

PHYT 8923  Community Applications  3 s.h.
Community-based project that encompasses the aspects of advocacy, collaboration, social responsibility, consultation and leadership, marketing/PR, and fiscal management.
Prereq.: Admission to the DPT Program.

PHYT 8925  Applied Neuroscience for Physical Therapists  4 s.h.
Introduction to the anatomy and physiology of the human central and peripheral nervous systems. Interaction and relationships between the various structures are described in order to understand movement, sensation and higher cortical functions. Structure is related to function through clinical case examples with an emphasis on the importance for physical therapy assessment and intervention.
Prereq.: Admission to DPT Program.

PHYT 8929  Clinical Decision Making 3: Advanced Cases  3 s.h.
In-depth analysis of patient/client cases which includes pharmacology influences and diversity aspects. Differential diagnosis skills will be further developed in respect to each case. Evidence-based practice will be emphasized.
Prereq.: Admission to DPT program.

PHYT 8933  Clinical Foundation Skills  4 s.h.
Theories of professionalism in Physical Therapy practice including APTA/OPTA membership and benefits, fiscal responsibility, core values, professionalism, patient and professional advocacy, communication skills, safety, and healthcare compliance will be discussed. Basic patient assessment and its principles will be taught and practiced and their clinical relevance will be reinforced.
Prereq.: Admission to DPT program.

PHYT 8935  Epidemiology in Health Sciences  3 s.h.
The course will discuss various research designs and appropriate statistics germane to epidemiology. Common measures of effect will be discussed with appropriate interpretation of these effects. The student will be expected to implement their knowledge of the subject by designing or redesigning a study specific to epidemiological principles within their area of interest.
Prereq.: Admission to Physical Therapy Department.

PHYT 8938  Special Topics in Physical Therapy  1-5 s.h.
Special interest physical therapy topics selected by the faculty which reflect current trends and issues in physical therapy practice. May be repeated as desired.
Prereq.: Admission to the DPT program.

PHYT 8940  Interdisciplinary Health Care Delivery  3 s.h.
Foundational knowledge and skills necessary for legal and ethical practice of pertinent healthcare disciplines (Physical, Occupational, and Speech Therapy, Dietetics, etc.). Emphasis is on legal principles and concepts; contract, business, and educational law; licensure and state practice acts. Emphasis is placed on ethical theory and ethical decision making approaches; and professional code of ethics. Global study of the delivery of healthcare in a broad spectrum view is provided. Emphasis is on the societal, economic, legal/ethical and cultural factors that influence healthcare. Multidisciplinary views of healthcare are considered.
Prereq.: Admission to Physical Therapy Department.

PHYT 8941  Psychosocial & Cultural Aspects of Healthcare  3 s.h.
Investigation into the psychosocial and cultural issues related to a variety of common clinical pathologies. The dynamic impact of the interaction between the patient/client and persons involved in their healthcare, professionals and caregivers will be considered. Topics of interest include mental, physical, behavioral, and cultural issues across the lifespan. Cultural theory and its applications to clinical interactions will be examined and integrated. Topics include cultural assumptions and patterns of health-related activity related to: disability, socioeconomic status, age, gender, ethnicity/race, sexual orientation, and religion.
Prereq.: Admission to Physical Therapy Department.

PHYT 8942  Mental and Behavioral Aspects of Healthcare  3 s.h.
This course will examine various aspects of mental health and behaviors that may impact healthcare and wellness, both positively and negatively, using the ICF model. An in-depth examination of current theory and research associated with major psychological disorders taken from the DSM-IV will be reviewed. Discussions and current criticism of genetic factors, ethics, the healthcare system, and treatment options will be further examined. The student will develop a comprehensive understanding regarding therapeutic approaches towards mental health issues that can maximize health related outcomes.

PHYT 8944  Clinical Decision Making 4-Part 1  3 s.h.
Topics that integrate practice patterns (musculoskeletal, neuromuscular, cardiopulmonary, and integumentary) such as multiple trauma, burns, amputations, and critical care. Also includes complex cases within routine diagnoses, due to severity, chronicity or comorbidity. Emphasis on outcomes studies.
Prereq.: Admission to DPT.

PHYT 8945  Clinical Decision Making 4-Part 2  3 s.h.
Topics that integrate practice patterns (musculoskeletal, neuromuscular, cardiopulmonary, and integumentary) such as multiple trauma, burns, amputations, and critical care. Also includes complex cases within routine diagnoses, due to severity, chronicity or comorbidity. Emphasis on outcomes studies.
Prereq.: Admission to DPT.
PHYT 8962 Mentored Instruction 3 s.h.
Course is taken on an individual basis with an assigned faculty member during which the student assists in all teaching aspects of the undergraduate or entry-level course selected by the student. Individualized mentoring in the teaching-learning process is the focus of the course. Student will assist in course planning, syllabi construction, student facilitation, and student assessment.
Prereq.: TCED 6936 or equivalent.

PHYT 8970 Scientific Writing in Health Sciences 3 s.h.
PHYT 8970 will address four major areas of written communication for the scientific process: institutional review board, grant writing, thesis/dissertation, and writing for manuscript submission. This course will engage the student in the activity of writing clear and concise documents that are readable to large diverse audiences while remaining technically proficient. The course will address common pitfalls to written communication and will culminate in a project that is peer reviewed.

PHYT 8990 Graduate Research in Health Sciences 1-6 s.h.
PHYT 8990 is a graduate research experience that will allow the student the opportunity to contribute to research that is directed by an individual faculty mentor and refine their thinking on research design and implementation. This course will facilitate the student’s formulation of a potential dissertation topic or provide opportunity to create foundational work for their dissertation. 1 -

PHYT 8995 Dissertation in Health Science 1-9 s.h.
PHYT 8995 is the culminating research experience of the Ph.D. program in Health Sciences. The student is expected to design, propose, conduct, analyze, report and defend a topic that is germane to their area of interest and expertise. This project should be meaningful and contribute to the body of literature in their profession. 1 -
Prereq.: completion of doctoral comprehensive examinations.

Graduate Faculty

James A. Benedict, PT, Ph.D., Associate Professor
Healthcare policy; pro bono care; vulnerable populations

Matthew Campbell, Ph.D., ATC, Assistant Professor
Experiential learning in athletic training education; clinical education, youth sports, physical literacy/motor learning; social justice issues in athletic training and athletic training education

Cara A. Carramusa, Ed.D., PT, M.S., GCS, Assistant Professor
PT education research: employability skills and professional dispositions/identity, teaching and learning, clinical education; older adults: fall risk management/prevention, active aging, population health/socialization of the physical therapy profession

Weiqing Ge, D.P.T., Ph.D., Professor
Biomechanics; manual therapy including complementary and integrative approaches; telehealth; cultural competence; scholarship in teaching

David William Griswold, D.P.T., Ph.D., Associate Professor
Concussion management; vestibular rehabilitation; effects of manual therapy on pain and disability for orthopedic conditions; physiological and clinical effects from dry needling

Edmund C. Ickert, D.P.T., M.S., Assistant Professor
Cardiopulmonary programs/outcomes/interventions; falls/fall prevention and outcome; geriatrics; education

Nancy Crum Landgraff, PT, Ph.D., Professor, Chair
Stroke rehabilitation and outcomes

Kenneth Learman, PT, Ph.D., Professor
Physical therapy interventions for the spine; concussion management; chronic pain phenotyping; headache differentiation

Cathy Bieber Parrott, PT, M.S., Assistant Professor
Orthopedic-related disability measurement; program assessment

Omar Ross, D.P.T., O.C.S., Assistant Professor
Alternative methods of anatomy instruction

Educational Specialist in School Psychology

Introduction
The school psychology program is housed in the Beeghly College of Liberal Arts, Social Sciences and Education. Students who successfully complete 45 credit hours of coursework are awarded the Master of Education (M.Ed.) degree in Intervention Services. An additional 54 credit hours are required for the awarding of the Educational Specialist (Ed.S.) degree in School Psychology. Candidates must also pass the PRAXIS II examination in school psychology for licensure in the State of Ohio and for certification by the National Association of School Psychologists (NASP). (Please note the following are required for admission to the Educational Specialist degree: Successful completion of the YSU M.Ed. In Intervention Services, demonstration of successful skills as evidenced by grades and disposition ratings throughout the program, and a successful Ed S. admissions interview.)

The program provides a curriculum that is comprehensive, integrated, and sequential. It follows the school psychology standards set forth by the State of Ohio, NASP, and the Council for the Accreditation of Education Preparation (CAEP). Courses reflect current advances in the field of school psychology and education. In addition, the program has a unique emphasis in low incidence disabilities. The program is committed to implementing and integrating the most current technology.

The school psychology program is structured so that course content is accompanied by appropriate field experiences. Practicum experiences are designed to provide students with opportunities to practice skills that are required in professional practice while under direct supervision. Practicum experiences occur in conjunction with specific courses and are individualized in terms of setting and assignment to a field supervisor.

Full-time study in school psychology (M.Ed and Ed.S.) generally constitutes a three-year sequence. To develop the needed specific competencies and to meet the training goals of the YSU school psychology program, candidates during the first year of study complete coursework in counseling, educational, and psychological foundations at the master’s level.

For more information about the School Psychology program, contact the Office at 330-941-3257 or visit our website (http://catalog.ysu.edu/undergraduate/colleges-programs/college-education/department-counseling-special-education-school-psychology/).

Welcome
Our program is designed to prepare graduates with the necessary knowledge, skills, and dispositions to serve as school psychologists. Youngstown State University offers a Master of Education in Intervention Services as the initial degree required for admission to the Educational Specialist in School Psychology program. The School Psychology program at YSU enrolled its first class of candidates in 2012 and graduated its first class of School Psychologists in August 2015. Graduate students will find a unique educational experience that prepares them for a career in School Psychology. I encourage you to review the website and to contact the program director below.

Jeffrey Coldren, Ph.D.
Chair / Professor
Department of Psychology Sciences and Counseling
330-941-1617
jtcoldren@ysu.edu
Program Director
For specific questions about the School Psychology program, please contact the program director:

Richard W. VanVoorhis, D.Ed., NCSP, Associate Professor
3212 Beeghly College of Education
(330) 941-3266
rwvanvoorhis@ysu.edu

Accreditation
The School Psychology program within the Department of Counseling, School Psychology, & Educational Leadership, achieved full national recognition as a NASP (National Association of School Psychologists) approved program through Fall 2024 - https://www.nasponline.org/

Admission Requirements
The Youngstown State University school psychology program is a cohort-based program and will accept students on a full-time basis. Part-time positions in the program are limited and are only considered when space is available. The first year of the program commences during the summer. The requirements for applying to the YSU School Psychology program are:

- Successful completion of the YSU Master of Education in Intervention Services, demonstration of successful skills and dispositions, as evidenced by grades and disposition ratings throughout the program, and a successful Ed.S. admissions interview.
- Application Deadlines:
  - Fall: June 15th
  - Spring: October 15th
  - Summer: March 15th

Graduate Faculty
Carrie R. Jackson, D.Ed., Assistant Professor
Applied behavior analysis; autism spectrum disorders; neuropsychology; transition planning/vocational assessment

Richard W. VanVoorhis, D.Ed., Associate Professor
Role and function of school psychologists; career development and counseling topics; special education service delivery; low incidence disabilities; assessment and identification issues

Requirements for Ed.S. Degree in School Psychology
Successful completion of the following 54 credit semester hours as listed below:

- Successful completion of 22 required credit semester hours;
- Successful completion of 11 practicum required credit semester hours;
- Successful completion of 21 internship credit semester hours;
- Successful completion of EDS comprehensive exam;
- Approval of professional internship competency notebook; and
- Successful completion of Change Project (Capstone experience partial fulfillment of SPSY 7512 Internship/Supervised Experience 1, SPSY 7513 Internship/Supervised Experience 2, and SPSY 7514 Internship/Supervised Experience 3 requirements).

Required Courses for the Education specialist Degree in School Psychology

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>SPSY 7500</td>
<td>Dynamic Assessment 1</td>
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<td>SPSY 7503</td>
<td>Dynamic Assessment 2</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 7506</td>
<td>Consultation Approaches to Treatment in Schools</td>
<td>3</td>
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<tr>
<td>SPSY 7507</td>
<td>Classroom Assessment and Decision Making</td>
<td>3</td>
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<tr>
<td>SPSY 7508</td>
<td>Neuropsychology, Low Incidence and Learning Behavior</td>
<td>3</td>
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<tr>
<td>SPSY 7509</td>
<td>Family Systems Within an Educational Context</td>
<td>3</td>
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<tr>
<td>SPSY 7510</td>
<td>Professional Development Seminar in School Psychology</td>
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<tr>
<td>SPSY 7511</td>
<td>School Psychology Internship Studies</td>
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</table>

Practicum Courses

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<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>SPSY 7501</td>
<td>Dynamic Assessment Practicum in School Psychology</td>
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<tr>
<td>SPSY 7502</td>
<td>Cognitive Observation Practicum</td>
<td>2</td>
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<tr>
<td>SPSY 7504</td>
<td>Dynamic Assessment Child Study Practicum 2</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 7505</td>
<td>Dynamic Assessment Advanced Child Study Practicum 3</td>
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</table>

Internship Courses

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>SPSY 7512</td>
<td>Internship/Supervised Experience 1</td>
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<tr>
<td>SPSY 7513</td>
<td>Internship/Supervised Experience 2</td>
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<tr>
<td>SPSY 7514</td>
<td>Internship/Supervised Experience 3</td>
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<tr>
<td>SPSY 7515</td>
<td>Advanced Seminar in School Psychology</td>
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<tr>
<td>SPSY 7516</td>
<td>Advanced Seminar in School Psychology</td>
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</tbody>
</table>

Total Semester Hours 54

Learning Outcomes
1. Candidates will have knowledge and applied skills necessary to demonstrate school based data-based decision making and accountability.
2. Candidates will have knowledge and applied skills necessary to demonstrate effective consultation and collaboration.
3. Candidates will have knowledge and applied skills necessary to promote interventions and instructional support to develop student academic skills.
4. Candidates will have knowledge and applied skills necessary to promote interventions and mental health services to develop student social and life skills.
5. Candidates will have knowledge and applied skills necessary to promote school wide practices to promote learning.
6. Candidates will have knowledge and applied skills necessary to promote family-school collaboration services.
7. Candidates will have knowledge necessary to understand diversity in development and learning.
8. Candidates will have knowledge and applied skills necessary to conduct research and program evaluation.
9. Candidates will have knowledge and applied skills necessary to understand and demonstrate appreciate legal, ethical, and professional practice.

Graduate Courses

SPSY 5965 School of Psychology Workshop - Special Topics 1-5 s.h.
Selected topics related to intervention and current interest in the school of psychology field of study. Grading is S/U.
SPSY 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.

SPSY 6902  School Organization, Classroom Analysis, Cross-Categorical Settings  3 s.h.
Provides students in the school psychology program with the opportunity to observe and participate in educational regular education (K-12) and special education settings (SLD, CD, ED, MH, Autistic clinics, for B-21 years of age) in order to understand the organization of educational institutions they will ultimately serve as well as student population characteristics to understand the organization of educational institutions they will ultimately serve.

SPSY 6904  Crisis Counseling  3 s.h.
An overview of the professional concerns and issues school psychologists face working in public school systems. Orientation and preparation for the supervised internship experience will be discussed; future responsibilities as a professional and staff consultant. Legal and ethical issues pertaining to the role of a school psychologist will be reviewed.

SPSY 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.

SPSY 6906  Role and Function of a School Psychologist  3 s.h.
An overview of the professional concerns and issues school psychologists face working in public school systems. Orientation for a supervised internship experience will be discussed; future responsibilities as a professional and staff consultant. Historical, legal and ethical issues pertaining to the role of a school psychologist will be reviewed.

SPSY 6907  Psycho-Educational Assessment Practices in the Schools  3 s.h.
This course is designed to provide an overview of the relevant concepts, principles and methods underlying the construction and interpretation of psychological and educational tests. Through lectures, discussion, and individual and group activities, candidates will learn about the basic concepts, competencies, issues, and tools used in psychological testing and measurement and their practical applications. In this course, candidates will gain knowledge of how psychological tests are built, what they can and cannot do, the conditions under which they should and should not be used, and how to evaluate their adequacy.
Prereq.: School Psychology Candidacy.

SPSY 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.

SPSY 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).

SPSY 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.

SPSY 7500  Dynamic Assessment  3 s.h.
This course is designed for the school psychology student and includes the administration and interpretation of intelligence tests. The goal of this course is to provide students with a series of experiences which will lead to student mastery in the administration, scoring, and interpretation of various cognitive instruments and one achievement test.
Concurrent: SPSY 7501 and SPSY 7502.

SPSY 7501  Dynamic Assessment Practicum in School Psychology  3 s.h.
Supervised experience in the administration and scoring of cognitive assessment protocols and demonstration of behavioral observation recording.
Concurrent: SPSY 7500 and SPSY 7502.

SPSY 7502  Cognitive Observation Practicum  2 s.h.
Supervised experience in the administration of various psychological instruments.
Prereq.: SPSY 7500 and SPSY 7501 concurrently.

SPSY 7503  Dynamic Assessment  3 s.h.
This course is designed to provide school psychology candidates with a theoretical foundation and the attainment of assessment skills in the areas of achievement, perceptual-motor, receptive, expressive, written language skills, behavioral, self-concept, emotional, developmental history and adaptive behavior assessment.
Prereq.: Candidates must have obtained a "B" or better and reached competence in SPSY 7500, SPSY 7501, and SPSY 7502.
Concurrent: SPSY 7504 and SPSY 7505.

SPSY 7504  Dynamic Assessment Child Study Practicum  3 s.h.
Candidates are provided supervised practicum experience utilizing a systematic, ecological approach to child study.
Prereq.: Candidates must have obtained a "B" or better and reached competence in SPSY 7500, SPSY 7501, and SPSY 7502.
Concurrent: SPSY 7503 and SPSY 7504.

SPSY 7505  Dynamic Assessment Advanced Child Study Practicum  3 s.h.
Candidates are provided advanced supervised practicum experiences in school systems in the area of child study.
Prereq.: Candidates must have obtained a "B" or better and reached competence in SPSY 7500, SPSY 7501, and SPSY 7502.
Concurrent: SPSY 7503 and SPSY 7504.

SPSY 7506  Consultation Approaches to Treatment in Schools  3 s.h.
This course presents assessment procedures for ecological contexts and client needs within school contexts.
Concurrent: SPSY 7507.

SPSY 7507  Classroom Assessment and Decision Making  3 s.h.
The purpose of this course is to analyze and assess problems related to classroom learning environments, to plan programs to enhance environments, and to implement as well as evaluate plans. The aim of this course is to prepare school psychology students to function effectively within public school classrooms by applying various consultation models.
Concurrent: SPSY 7506.

SPSY 7508  Neuropsychology, Low Incidence and Learning Behavior  3 s.h.
This course is designed to provide the basics of neuropsychology, specifically, in terms of brain organization and neurological development.
Prereq.: SPSY 7500, SPSY 7501, and SPSY 7502.

SPSY 7509  Family Systems Within an Educational Context  3 s.h.
The focus of the didactic and experiential course will be on identifying patterns of children's symptoms, repositioning of the therapist within the educational system context and learning of various therapeutic techniques to use with families of children with disabilities or other mental health issues.
As part of the online Graduate Admission application and College of Graduate Studies requirements, applicants to the MAcc Program should submit a letter of application and a current resume/vita.

Students without an undergraduate major in accounting must have completed the following prerequisite coursework with a grade of "C" or better: Intermediate Accounting I & II, Federal Income Taxation, Cost Accounting, Accounting Information Systems (AIS), and Auditing. The Program Director will oversee the admission process to ensure student success and overall high-quality of the MAcc program.

Students with a major in accounting where the relevant undergraduate accounting coursework (major accounting courses) was taken more than five years ago and/or do not have recent, substantial, relevant accounting experience (as judged by the Program Director) will be required to take foundational coursework* to be successful in the MAcc Program.

Due to differences in accounting regulations and practices globally, students from an international university where the nature of the accounting coursework is not substantially similar to YSU courses and/or where the international university is not accredited by a recognized United States accrediting organization will be required to take foundational coursework* to be successful in the MAcc Program.

*The minimum foundational coursework required will be Intermediate Accounting 1 (Acct 3701) and Federal Tax 1 (Acct 4813), and is required to be taken at YSU or another approved university (as determined by the Program Director).

Graduate Faculty

Huaiyu (Peter) Chen, Ph.D., Associate Professor
Equity market; abnormal return

Karin A. Petruska, Ph.D., Professor
Financial accounting and reporting; international accounting; earnings quality and disclosure; analyst following; forensic accounting

Jeremy T. Schwartz, Ph.D., Associate Professor, Director
Practice-based case studies; public pensions

Degree Requirements

<table>
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<tr>
<th>COURSE</th>
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<tr>
<td>ACCT 5814</td>
<td>Federal Taxation 2</td>
<td>3</td>
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<tr>
<td>ACCT 5820</td>
<td>Government and Funds Accounting</td>
<td>3</td>
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<tr>
<td>ACCT 6930</td>
<td>Financial Accounting Regulation</td>
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<tr>
<td>ACCT 6908</td>
<td>Auditing Theory and Practice</td>
<td>3</td>
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<tr>
<td>ACCT 6945</td>
<td>Accounting Ethics and Professionalism</td>
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<tr>
<td>MGT 6945</td>
<td>Business Process Integration</td>
<td>3</td>
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<tr>
<td>BUS 6940</td>
<td>Data Analytics and Data Management</td>
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<td>ACCT 6970</td>
<td>Capstone Experience</td>
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<td>Total Required Hours</td>
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<td>Elective Hours</td>
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<td>Recommended CPA Track - Take All or Mix with Other Elective Options</td>
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<tr>
<td>ACCT 6972</td>
<td>Audit Theory Review and Practice</td>
<td>2</td>
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<tr>
<td>ACCT 6971</td>
<td>Regulation Theory Review and Practice</td>
<td>2</td>
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<tr>
<td>ACCT 6973</td>
<td>Business Environment &amp; Concepts Theory Review and Practice</td>
<td>2</td>
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<tr>
<td>ACCT 6974</td>
<td>Financial Accounting Theory Review and Practice</td>
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<td>ACCT 6910</td>
<td>Business Internship</td>
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Graduate Elective Course Options

MGT 6945  Business Process Integration  3
ACCT 6945  Accounting Ethics and Professionalism  2
ACCT 6971  Regulation Theory Review and Practice  2
ACCT 6973  Business Environment & Concepts Theory Review and Practice  2
ACCT 6974  Financial Accounting Theory Review and Practice  2
ACCT 6972  Audit Theory Review and Practice  2
ACCT 6930  Financial Accounting Regulation  3
ACCT 5820  Government and Funds Accounting  3
ACCT 5814  Federal Taxation  3

** Master of Accountancy

Program Director

Dr. Raymond J. Shaffer

rjshaffer@ysu.edu

Program Description

The Master of Accountancy (MAcc) degree is designed to promote advanced professional competencies and to enhance opportunities for career success. Heavy emphasis is placed on the application of theory to actual practice so that graduates will immediately be able to add value to business organizations. Graduates will meet Ohio State Board of Accountancy requirements to sit for the Uniform CPA Examination and Pennsylvania State Board of Accountancy to be licensed as a CPA. The 30-hour MAcc program can be completed in two semesters of full-time study if started fall semester, or may be completed on a part-time basis.

Admission Requirements

Students with a minimum overall GPA of 3.0 and a minimum accounting GPA of 3.0 will be granted direct admission into the MAcc Program. Students with an overall GPA or accounting GPA between 2.7 and 2.99 may be granted provisional admission as provided by YSU Graduate College admission policies. Students with a GPA below 2.7, either overall or in accounting, will be required to pass foundational coursework to be considered for admission to the MAcc Program and as a requirement for provisional admission. Students with an overall GPA below 2.7 will be required to take the GMAT (preferred) or GRE to be considered for admission. Students who are required to take the GMAT must score at least 1000 points based upon the following formula: (GPA x 200) + GMAT (or GRE converted to GMAT equivalent) score to be considered for admission.
ACCT 6917  MAcc Income Tax Preparation  3 s.h.

ACCT 6915  Estate Planning  3 s.h.

ACCT 6950  Fraud Examination  3 s.h.

ACCT 6968  Special Topics in Accounting  1-3 s.h.

FIN 6945  Business Valuation  3 s.h.

Learning Outcomes
1. Acquire advanced knowledge of accounting.
2. Recognize ethical issues considered in a business context.
3. Be able to communicate in a business appropriate manner.
4. Utilize relevant information resources to support decision making.

Graduate Courses

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 4813.

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 efilng 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.
Master of Arts in American Studies

As of fall 2021, admission to the graduate program in American Studies has been suspended.

Applications to the program are not being accepted at this time.

Program Director
Dr. Martha Pallante - Interim Director
104 DeBartolo Hall
(330) 941-3408
mipallante@ysu.edu

Dr. Daniel Ayana
541 DeBartolo Hall
(330) 941-1609
dayana@ysu.edu (dvisque@ysu.edu)

Program Description
The Master of Arts in American studies program is designed to provide students with training in the content, theory, and methods for studying the history and culture of the United States and is designed to provide both training and experience in developing and implementing public humanities and educational programs. Special emphasis is placed on the application of the humanities in community, museum, and school settings. The program offers a core of courses in American studies, art and literature, history, working-class studies, and public practice, along with opportunities to work in local museums, schools, community projects, and other public humanities programs. Courses for the program have been drawn from five different colleges, providing students the chance to gain a truly broad and diverse education while deepening their knowledge of American culture. The M.A. in American studies also offers a teaching track designed for secondary school teachers.

Admission Requirements
Students must have a cumulative grade point average in undergraduate study of 3.0 (on a 4.0 scale). The bachelor’s degree may be in any field, but students should have taken at least 12 hours of upper-division coursework in some combination of the arts, humanities, and/or social sciences. Applicants must include a personal statement detailing goals and decision for pursuing graduate study in American Studies.

Graduate Faculty
John M. Hazy, Ph.D., Professor, Chair
Community/behavioral health (drugs and crime); methodology and assessment; life course and cultural issues; teaching effectiveness

Martha Pallante, Ph.D., Professor
Early American studies; material culture; pedagogy

Degree Requirements
Students must complete 36 semester hours of coursework at the graduate level.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>AMER 6900</td>
<td>Approaches to American Studies</td>
<td>3</td>
</tr>
<tr>
<td>AMER 6990</td>
<td>Independent Project ¹</td>
<td>3</td>
</tr>
</tbody>
</table>

Practice Area
Select two credits from one of the following tracks:

<table>
<thead>
<tr>
<th>Select two of the following:</th>
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</thead>
<tbody>
<tr>
<td>AMER 6970</td>
</tr>
</tbody>
</table>
Select four additional courses with at least one from each of the other focus areas above.

Total Semester Hours 36

1. The required course, AMER 6990 Independent Project in American Studies, requires each student to complete an independent project, such as:
   - a major research project,
   - the design and promotion of a special exhibit at a museum,
   - the development of an education program at a local library, or
   - the completion of a planning project in cooperation with a local community development agency.

Students will work closely with a committee of YSU faculty and community specialists to design and implement their individual projects.

### Learning Outcomes

1. Students will analyze the various ways in which American culture is complex and diverse. Understanding American culture requires attention to how American diversity is reflected in the ideas, events, trends, texts, and issues created and used by Americans in everyday life as well as in community life and politics.

2. Students will explore and practice strategies for doing interdisciplinary analysis, which relies on the development of complex inquiry, selection of appropriate materials and concepts from a wide array of options, and the application of appropriate methods for interpreting and integrating diverse sources.

3. Students will create papers and projects in courses that demonstrate their ability to effectively communicate cultural knowledge and analyze why and how their choices are effective. This requires students to make appropriate choices about format, content, organization, and the use of evidence based on one's purpose, audience, and situation.

4. Students will develop connections between campus and community through papers, projects, and internships that apply the academic work to realms beyond the academy.

5. Students will plan, develop, write, and publicly present original research through their independent (thesis) projects.

6. Students will acquire professional experiences appropriate to the field of American Studies.

### Graduate Courses

**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.

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**Distribution Requirement**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMER 6910</td>
<td>Introduction to Working-Class Studies</td>
</tr>
<tr>
<td>AMER 6970</td>
<td>Teaching Working-Class Studies</td>
</tr>
<tr>
<td>ENGL 6923</td>
<td>Working Class Literature</td>
</tr>
<tr>
<td>HIST 6939</td>
<td>Labor in US History</td>
</tr>
<tr>
<td>HIST 6945</td>
<td>Interpretation and Preservation of the Industrial Built Environment</td>
</tr>
<tr>
<td>EDA 6933</td>
<td>Educational Leadership and Organizational Change</td>
</tr>
<tr>
<td>ENGL 6944</td>
<td>Document Design and Production</td>
</tr>
<tr>
<td>ENGL 6953</td>
<td>Publications Issues and Management</td>
</tr>
<tr>
<td>ENGL 6992</td>
<td>Professional Communication</td>
</tr>
<tr>
<td>HIST 5810</td>
<td>Conservation of the Historic Built Environment</td>
</tr>
<tr>
<td>HIST 6942</td>
<td>Applied History</td>
</tr>
<tr>
<td>HIST 6943</td>
<td>Practicum in Applied History</td>
</tr>
<tr>
<td>HIST/ENGL</td>
<td>Historical Editing</td>
</tr>
<tr>
<td>6946</td>
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<tr>
<td>HIST 6955</td>
<td>Museum Curation and Interpretation 1</td>
</tr>
<tr>
<td>HIST 6956</td>
<td>Museum Curation and Interpretation 2</td>
</tr>
<tr>
<td>HIST 6957</td>
<td>Special Topics in Applied History</td>
</tr>
</tbody>
</table>
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 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 6988  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 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.

Master of Arts in Art Education

As of January 1, 2021, admission to the graduate program in Art Education has been suspended.

Applications to the program are not being accepted at this time.

Program Director

Samuel Adu-Poku, Ph.D., Professor
4089 Bliss Hall
(330) 941-1866
sadupoku@ysu.edu

Program Description

The Master of Arts in Art Education program provides graduate students with the opportunity to expand their professional resumes and to develop artistic, pedagogical, scholarly, research and leadership capabilities through in-depth study in art studio, art history, and art education theory.

Accreditation

The Master of Arts in Art Education is accredited by the National Association of Schools of Art and Design (NASAD).

Application Deadline

<table>
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<tr>
<th>Student</th>
<th>Deadline</th>
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<tbody>
<tr>
<td>Summer Admission</td>
<td>February 15</td>
</tr>
<tr>
<td>Fall Admission</td>
<td>May 15</td>
</tr>
<tr>
<td>Spring</td>
<td>October 15</td>
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</tbody>
</table>

Admission Requirements

In addition to the admission requirements of the College of Graduate Studies, applicants must meet the following requirements:

- an undergraduate degree in art education studio art or related education fields;
- a cumulative undergraduate grade point average of 3.00 on a 4.00 scale;
- three original letters of recommendation;
- 10-12 color images of personal artwork;
- a statement of purpose of approximately 250 words indicating interest in program;
- a personal interview with the Program Director and the Graduate Program Committee in the Department of Art may be required.

In some cases, remedial coursework in undergraduate studio art may be required by the Graduate Program Committee in the Department of Art before regular admission is granted. To obtain regular admission, the candidate must rectify deficiencies by taking the appropriate undergraduate studio courses without graduate credit.

Graduate Faculty

Samuel Adu-Poku, Ph.D., Professor
Art education; Curriculum development; Multicultural education; Teacher education

Anthony Armeni, M.F.A., Part-time Faculty
Sculpture; Ceramics and Mixed Media

Lauren Baker, M.F.A., Part-time Faculty
Sculpture; Installation; 3-Dimensional Design; Painting

Joy Christiansen Erb, M.F.A., Professor
Photography; Portraiture; Installation

Dragana Crnjak, M.F.A., Associate Professor
Painting; Narrative work; Drawing

Joe D’Uva, M.F.A., Associate Professor
Printmaking; Non-toxic and digital printmaking methods, Collaborative Printing; Study Abroad

Johnathan Farris, Ph.D., Assistant Professor
Art History; Arts of Asia; Art and design related to colonialism and cross-cultural exchange; History of architecture; Arts of tourism and travel; Landscape and topographic art; the relation of gardens and art; History of ceramics, metal, and glass

Rich Helfrich, M.F.A., Assistant Professor

Medical and Recreational Marijuana Labeling Standards

Jennifer Kirkpatrick, M.F.A., Part-time Faculty
Digital Fabrication, Sculpture, Ceramics, Architecture

Lillian Lewis, Ph.D., Assistant Professor
Museum and Community Partnerships; Social Theory; Early Childhood Arts Education; Qualitative Research methods including Arts-Based Research

Missy McCormick, M.F.A., Associate Professor
Ceramics; 3D studies; Craft; Design; Interdisciplinary Art; Mix Media; Sculpture

Christine E. McCullough, M.F.A., Professor
Representational Painting and Drawing; Encaustic Painting; Interdisciplinary Curriculum

Stephanie Smith, Ph.D., Professor
Art History; Funerary art in the ancient Roman world; Roman glass; Late Antique portraiture

Jonathan Dana Sperry, M.F.A., Associate Professor
Digital Media

Louis Zona, Ph.D., Professor Emeritus
Contemporary and Modern Art history; The New York School; Museology Technologically Based Art

**Degree Requirements**

Students must complete a minimum of 36 semester hours of graduate coursework consisting of:

- a graduate studio core,
- an art education core,
- a graduate research course,
- an art history elective, and
- a capstone project in the form of either a written thesis or a graduate studio art exhibition.

Research projects are supervised by art education and studio art faculty and should be oriented toward the scholarly integration of theory and practice. As a culminating experience, students must complete either an exhibition based on a written thesis.

**Research Thesis Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 6904</td>
<td>Graduate Seminar in Art Education</td>
<td>3</td>
</tr>
<tr>
<td>ART 5880 &amp; ART 6982</td>
<td>Studio Problems in Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ART 5881 &amp; ART 6981</td>
<td>Studio Problems in Digital Media</td>
<td>3</td>
</tr>
<tr>
<td>ART 5882 &amp; ART 6982</td>
<td>Studio Problems in Digital Media</td>
<td>3</td>
</tr>
</tbody>
</table>

**Research Thesis**

Select 3-5 s.h. variable credits in field research or studio production and a written thesis based on individual need and research focus.

<table>
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<th>COURSE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ART 6923</td>
<td>Graduate Art Thesis or ART 6924 Graduate Studio Project and Exhibition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Non-Research Thesis Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 6904</td>
<td>Art History Electives</td>
<td>3</td>
</tr>
<tr>
<td>ART 5840</td>
<td>Topics in Ancient Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 5881</td>
<td>Twentieth Century Art to 1960</td>
<td>3</td>
</tr>
<tr>
<td>ART 5882</td>
<td>Twentieth Century Art from 1960</td>
<td>3</td>
</tr>
<tr>
<td>ART 6960</td>
<td>Special Topics in Art History</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours**

36

Studio courses may be repeated and must be selected from more than one area of concentration. Studio courses may be taken in increments of 1-3 s.h. variable credits with faculty approval.

**Non-Research Thesis Track**

Select one of the following:

<table>
<thead>
<tr>
<th>COURSE</th>
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<td>3</td>
</tr>
<tr>
<td>ART 6960</td>
<td>Special Topics in Art History</td>
<td>3</td>
</tr>
</tbody>
</table>
Learning Outcomes

1. Candidates demonstrate understanding of the connections between artistic and pedagogical practice, and can carry out Arts-Based or action research in their classrooms.
2. Candidates demonstrate proficiency in personal artistic practice, including technical expertise and the capacity for content expression.
3. Candidates can discriminate between and synthesize multiple sources of information to construct and demonstrate an understanding of the Field of Art Education, its history, and its place in the American educational system and political economy.

Graduate Courses

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.

ART 6910 Studio Problems in Sculpture 1-3 s.h.
Individual research of the technical, visual, conceptual, and aesthetic issues of contemporary sculpture. Professional studio practices are explored as well as conceptual art issues dealing with non-traditional formats, idea-oriented artworks and the notion of ‘research,’ and the blending of theoretical and material practice. Students develop a self-critical, articulate, and individual approach to solving aesthetic solutions to self-determined visual narratives and challenges. Repeatable for a maximum of six s.h.
Prereq.: Permission of instructor.

ART 6911 Studio Problems in Sculpture 1-3 s.h.
Emphasis on building on ideas researched in ART 6910 to develop greater conceptual, aesthetic, and technical sophistication. Directed readings and writing assignments in addition to professional studio practice are used to promote further development of individual approaches to solving aesthetic solutions to self-determined visual narratives and challenges. May be repeated for a maximum of six s.h.
Prereq.: ART 6910.

ART 6912 Studio Problems in Sculpture 1-3 s.h.
Students engage in the final phase of conceptual and technical refinement that will result in a cohesive body of work that demonstrates their conceptual direction and technical proficiency. Studio practice together with intense analytical discourse of current studio work and exhibition thesis drafts prepare students for the visual, written, and oral defense components of their ART 6924 capstone course experience. May be repeated for a maximum of 6 s.h.
Prereq.: ART 6911.

ART 6920 Historical and Philosophical Foundations of Art Education 3 s.h.
Evaluation of the historical, chronological, and philosophical developments in art education with emphasis on significant trends and movements which have impacted its growth and structure.
Prereq.: Graduate status.

ART 6921 Current Issues, Perspectives, and Curriculum Practices in Art Education 3 s.h.
A survey of current issues and legislative mandates that affect art education curriculum. Students will gain insight into curriculum development, implementation, and evaluation of art education programs.
Prereq.: Graduate status.

ART 6922 Graduate Seminar in Art Education 3 s.h.
Explores contemporary events, theories, issues, trends, and practices that are influencing the field of art education.
Prereq.: Graduate status.

ART 6923 Graduate Art Thesis 1-5 s.h.
Students will develop a thesis in one of three modes: scholarly thesis, studio inquiry and essay, or teaching project and report. Repeatable for up to 5 total semester hours.
Prereq.: Graduate status.

ART 6924 Graduate Studio Project and Exhibition 1-5 s.h.
A professional art exhibition and written artist statement as an exit requirement and an alternative to the graduate research thesis option. Activities will include design and production of artworks for exhibition, directed readings, portfolio development, written assignments including an artist statement, oral defense of exhibition, and faculty review. The 5 s.h. requirement can be fulfilled through enrollment in ART 6924 over successive semesters at between 1-5 s.h. credit; however, students are encouraged to complete the course within two semesters.
Prereq.: 18 studio credits.

ART 6930 Studio Problems in Ceramics 3 s.h.
Individual research in spatial arts imagery. Concentration on individual study in ceramic construction, firing process and calculation, formulation and firing of clay bodies, and low-fire and high-fire glaze systems. May be repeated for a maximum of six semester hours of credit.
Prereq.: Permission of instructor and evidence of previous work.

ART 6931 Studio Problems in Ceramics 1-3 s.h.
Continuation of ART 6930. May be repeated for a maximum of six semester hours of credit.
Prereq.: ART 6930.

ART 6932 Studio Problems in Ceramics 1-3 s.h.
Continuation of ART 6931. May be repeated for a maximum of six semester hours of credit.
Prereq.: ART 6931.

ART 6940 Studio Problems in Printmaking 3 s.h.
Individual research into monoprinting, intaglio etching, relief printing, silkscreen, lithography, and monotype. May be repeated for a maximum of six semester hours.
Prereq.: Portfolio presentation and permission of instructor.

ART 6941 Studio Problems in Printmaking 1-3 s.h.
Continuation of ART 6940. May be repeated for a maximum of six semester hours.
Prereq.: ART 6940.
ART 6942  Studio Problems in Printmaking  1-3 s.h.  Continuation of ART 6941. May be repeated for a maximum of six semester hours.
Prereq.: ART 6941.

ART 6950  Studio Problems in Painting  3 s.h.  Individual research of two-dimensional form through various media, including oil, acrylic, watercolor, collage, etc. May be repeated for a maximum of six semester hours credit.
Prereq.: Permission of instructor and evidence of previous work.

ART 6951  Studio Problems in Painting  3 s.h.  Continuation of ART 6950. May be repeated for a maximum of six semester hours credit.
Prereq.: ART 6950.

ART 6952  Studio Problems in Painting  1-3 s.h.  Continuation of ART 6951. May be repeated for a maximum of six semester hours credit.
Prereq.: ART 6951.

ART 6960  Special Topics in Art History  3 s.h.  Study in one of the many areas of art history. May be taken up to three times for credit if the topic is not repeated.

ART 6970  Studio Problems in Photography  3 s.h.  Individual research of photography through selected technical and aesthetic photographic topics using a variety of approaches for advanced fine art applications. May be repeated for a maximum of six semester hours of credit.
Prereq.: Permission of instructor and documentation of previous work.

ART 6971  Studio Problems in Photography  3 s.h.  Continuation of ART 6970. May be repeated for six semester hours of credit.
Prereq.: ART 6970.

ART 6972  Studio Problems in Photography  3 s.h.  Continuation of ART 6971. May be repeated for six semester hours of credit.
Prereq.: ART 6971.

ART 6980  Studio Problems Digital Media  3 s.h.  Individual research in digital forms of expression through various media, including but not limited to printed digital collage, video and Internet-based projects. May be repeated for a maximum of six semester hours of credit.
Prereq.: Permission of instructor and documentation of previous work.

ART 6981  Studio Problems Digital Media  3 s.h.  Continuation of ART 6980. May be repeated for six semester hours of credit.
Prereq.: ART 6980.

ART 6982  Studio Problems Digital Media  3 s.h.  Continuation of ART 6981. May be repeated for six semester hours of credit.
Prereq.: ART 6981.

ART 6990  Interdisciplinary Studio  1-6 s.h.  Self-motivated graduate study informed by contemporary theory and discourse. Students follow a personal, self-proposed, conceptual direction and work independently, supported by faculty. First year placed on challenging traditional ideas about creative practice by connecting and integrating various creative processes, materials and methodologies. Through scheduled critiques students present and discuss their studio research with peers and faculty. Total of 6 s.h. with a minimum of two different faculty first year fall semester.
Prereq.: Admission to MFA program.

ART 6991  Interdisciplinary Studio 2  1-9 s.h.  Continuation of ART 6990. Self-motivated, individual studio practice. At the end of the second semester students are assessed on the ability to integrate self-directed research with the ideas and concepts proposed in the Interdisciplinary Seminar and Strategies courses. Second semester culminates in a first year group exhibition. Total of 1 to 9 s.h. with a minimum of two different faculty first year second semester.
Prereq.: ART 6990.

ART 6992  Interdisciplinary Studio 3  1-6 s.h.  Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester.
Prereq.: ART 6991.

ART 6993  Interdisciplinary Studio 4  1-9 s.h.  Continuation of ART 6992. Self-motivated, individual studio practice. In the final semester students are focused on studio research and production of work for their MFA Thesis Project and Capstone. Total of 9 s.h. with a minimum of two different faculty second year spring and final semester.
Prereq.: ART 6992.

ART 6994  Strategies in Interdisciplinary Practice 1  3 s.h.  Through a wide range of readings and presentations, this course will explore the significant moments, theoretical foundations and current trends within interdisciplinary and collaborative visual art practices. These explorations will be paired with a series of long and short projects that demystify strategies and problems within the range of visual art practices discussed. The course will also discuss modes of content communication that exist across the different disciplines such as the use of specific symbols, materials, processes and context. While ideas and readings may link with the MFA seminar, this course is designed to give students a solid theoretical and practical foundation in an interdisciplinary studio art practice.
Prereq.: Admission to MFA program.

ART 6995  Strategies in Interdisciplinary Practice 2  3 s.h.  Through a wide range of readings and presentations, this course will expand on the dialogue from Strategies in Interdisciplinary Practice 1. These explorations will be paired with a series of long and short projects that demystify strategies and problems within the range visual art practices discussed. The course will also discuss modes of content communication that exist across the different disciplines, such as the use of specific symbols, materials, processes and context. While ideas and reading in this course may link and connect with the MFA seminar, this course is designed to build upon the solid theoretical and practical foundation built in Strategies in Interdisciplinary Practice.
Prereq.: ART 6994.

ART 6996  Seminar in Interdisciplinary Theory 1  3 s.h.  Covering the key concepts and topics of modern and contemporary critical theory, the course examines various aesthetic, cultural, political climates in relation to developments of interdisciplinary art practice. MFA Seminar should be taken in sequence and serve as a dynamic forum for student research, critique, discussion, and the conceptual foundation for their individual studio practices.
Prereq.: Admission to MFA program.

ART 6997  Seminar Interdisciplinary Theory 2  3 s.h.  Topic will rotate each semester and address key concepts and topics of modern and contemporary critical theory. The course provides various perspectives towards the understanding of interdisciplinary art practice and critical discourses within contemporary art culture. Students will investigate interconnections between philosophical and theoretical issues and the ways they inform and impact interdisciplinary art practice today. MFA Seminar should be taken in sequence and serve as a foundation for individual studio practices.
Prereq.: ART 6996.

ART 6998  Seminar Interdisciplinary Theory 3  3 s.h.  Topics will vary each semester and address key concepts and topics of modern and contemporary critical theory. The course provides ongoing discussion surrounding the understanding of interdisciplinary art practice and critical discourses within contemporary art culture. Students will investigate interconnections between philosophical and theoretical issues and the ways they inform and impact interdisciplinary art practice today. As the last course within MFA Seminary sequence, it serves as a foundation for individual studio practice.
Prereq.: ART 6996.
Master of Arts in Economics

Program Director
Dr. Jeremy Schwartz
Williamson Hall 3382
(330) 941-3076
jtschwartz@ysu.edu

Program Description
The Master of Arts in economics program is designed to provide students with a background in applied economics which would lead to professional employment in business, government, or education. Special emphasis is placed on the use of data analysis to investigate public policy issues and business decisions. Supplemented by upper-level courses in mathematics, the program can also help prepare students for doctoral study in economics or related fields.

Combined Bachelors/Masters Program
Highly qualified undergraduate students can apply for admission into the combined "4+1" Bachelors/Masters program for the MA in Economics. See the description of the "4+1" program (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/department-economics/4-1-bachelors-masters-program/) in the undergraduate catalog.

Admission Requirements
In addition to the College of Graduate Studies admission requirements, applicants must have completed at least one course in each of the following areas:

- principles of microeconomics,
- principles of macroeconomics,
- statistics, and
- calculus.

Students who do not meet the requirements may be admitted on a provisional basis. Students with provisional admission are required to take undergraduate coursework to fulfill the admission requirements. With the permission of the Graduate Coordinator they may also be allowed to simultaneously take a limited number of masters-level courses.

International students from Jilin University of Economics and Finance and National Chiayi University may take up to 9 semester hours of graduate credit in Interdisciplinary Visual Arts. Activities include design and production of artworks for exhibition, directed readings, writing assignments including thesis and portfolio development, professional practices, exhibition design, oral thesis defense and faculty review.

Prereq.: permission of graduate advisor.

Urban, housing, and environmental economics

Yogesh Uppal, Ph.D., Professor
Applied microeconomics; applied econometrics; public economics; political economy; development economics

Yaqin Wang, Ph.D., Professor
Futures markets; behavioral economics

Graduate Faculty

Ou Hu, Ph.D., Professor
Financial markets; international finance; asset pricing

Tomi P. Ovaska, Ph.D., Professor
Public finance; comparative economic systems; entrepreneurship; international trade; behavioral economics

Joseph Palaridy, Ph.D., Professor
Macroeconomics; time series econometrics

Albert J. Sumell, Ph.D., Professor

Degree Requirements
Students must complete 30 semester hours of graduate credit with a grade point average of 3.0 or higher for the M.A. in economics. The requirements for the degree include the following required courses plus three electives that account for a total of nine semester hours. ECON 6904 may be waived by the Graduate Coordinator for students with strong quantitative training, those students would then take an additional 3 semester hour elective.

Electives are 6900-level Economics courses, with the exception of ECON 6921 which will not count towards the degree. One elective may be either a 5800-level economics swing course or a graduate-level course taught outside the Department that has been approved by the graduate coordinator.

Thesis Option
Students may write a thesis expanding on their project in the Research Seminar (ECON 6998) in place of one of the three hour electives. Students selecting the thesis option must earn a grade of B or A in the Research Seminar and submit a thesis proposal with the names of three faculty members who are willing to serve on a thesis committee to the department chair prior to registering for thesis credit hours (ECON 6999). The student must defend the thesis in an oral examination before a committee of three or more faculty members of the department. The thesis must be submitted according to the general requirements of the College of Graduate Studies.

Learning Outcomes
The learning outcomes for the MA in economics are as follows:

1. The students will demonstrate how to measure, detrend, and analyze macroeconomic variables such as GDP and inflation.
2. The students will evaluate monetary and fiscal policy using various versions of the IS-LM model.
3. The students will demonstrate the importance of expectations in current macroeconomic theory.
4. The students will compare the basic theories and models of Neoclassical and New-Keynesian Economics.
5. The student will solve for utility-maximizing and cost-minimizing outcomes using calculus.
6. The student will mathematically model the behavior of firms in competitive markets and firms who are monopolies.
7. The student will calculate the welfare losses due to a lack of competition.
8. The student will explain how public goods and externalities result in market failure.
9. The student will summarize how taxes result in efficiency losses and what factors determine the size of the efficiency loss.

10. The student will use an econometric approach to model economic phenomenon, estimate the resulting model, and interpret the estimated regression coefficients.

11. The student will demonstrate how to conduct a literature search of professional economic journals using EconLit.

**Graduate Courses**

**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 379) or (ECON 3788 and BUS 370).

**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. Discussions 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 analysis. 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 6939  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.

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 of 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.

Master of Arts in English

Program Director
Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
Program Description

The Master of Arts program in English offers courses in:

- literature research,
- history and theory,
- genre and figure studies,
- creative and professional writing,
- linguistics and composition theory,
- film; and
- the teaching of writing and literature.

Faculty members strive to offer students an understanding of the traditions of literary study and familiarity with the latest multicultural and interdisciplinary approaches. The M.A. in English prepares graduates to pursue opportunities in teaching, professional writing, and further graduate study.

Working closely with their advisors, students design individual programs to meet their interests and goals. Students are encouraged to explore a variety of approaches to the study of literature, language, and writing and to develop their abilities as readers, critics, writers, and teachers. The program requires 30 semester hours of coursework in English, during which students complete and present a thesis or portfolio of their representative work to a faculty review committee.

Graduate Certificates

Graduate certificates in professional and technical writing, teaching of writing, literature for children and young adults, and teaching English to speakers of other languages (TESOL) are available through the English Department. Please see the appropriate information in the Graduate Certificates section of this catalog.

Advising

All students should have their schedules approved by a graduate faculty advisor every semester. After initial enrollment in the program, the student and his or her advisor will establish a coursework plan including alternate course selections.

Students who anticipate graduate study beyond the M.A. are strongly advised to acquire basic reading competence in at least one foreign language.

Admission Requirements

Students must have an undergraduate English major or other preparation judged satisfactory by the department and an grade point average in undergraduate study of at least 3.0 (on a 4.0 scale). Applicants for the M.A. are required to submit a brief (750-1000 words) statement of purpose outlining their reasons for wishing to obtain the M.A. in English and how that degree fits into their professional goals. Applicants are also required to submit a short sample of academic prose, preferably an undergraduate class paper.

Degree Requirements

All master's degree students must complete 30 semester hours in English courses at the graduate level; exceptions must have prior approval of the English Department chair and the Director of Graduate Studies. All M.A. students must take at least one course in each of two areas:

- one theory or methods course (graduate assistants must take ENGL 6907 Teaching of Writing; ENGL 6989 Teaching Practicum may not fulfill this requirement);
- one language, discourse, or writing course.

Students may select the literature-based M.A. or the M.A. track in Professional Writing and Editing to complete their degree.

M.A. in English

To complete this option, students must complete 30 semester hours in English courses at the graduate level; exceptions must have prior approval of the Department Chair and the Director of Graduate Studies. In addition to theory, language, discourse, or writing courses required above, students selecting this option must take at least two literature courses from a list of approved courses, as well as one of these courses:

- ENGL 6900 Methods of Literary Research, or
- ENGL 6901 Methods of Composition Research.
To complete their degree requirements, students in this option may either submit a thesis or a graduate portfolio.

Students in this option are encouraged, but not required, to create a focus area with their remaining courses. Possible focus areas include:

- literature,
- linguistics,
- professional writing and editing,
- composition and rhetoric,
- teaching English to speakers of other languages (TESOL), and
- literature for children and young adults.

Students who plan on pursuing a Ph.D. in literary studies are strongly encouraged to complete a broad selection of courses in British and American literature.

M.A. in English, Professional and Technical Writing Track

To complete this option, students must complete 30 semester hours of credit in the following courses. Two of these courses must also satisfy the theory, language, discourse, or writing courses required above.

### Required Course Courses

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>ENGL 6943</td>
<td>Public and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6944</td>
<td>Document Design and Production</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6945</td>
<td>Theory of Professional and Technical Communication</td>
<td>3</td>
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<tr>
<td>ENGL 6992</td>
<td>Professional Communication (special topics)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6953</td>
<td>Publications Issues and Management</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6949</td>
<td>Professional and Technical Editing</td>
<td>3</td>
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<td>Select three of the following:</td>
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<tr>
<td>ENGL 6901</td>
<td>Methods of Composition Research</td>
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<tr>
<td>ENGL 6907</td>
<td>Teaching of Writing</td>
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<tr>
<td>ENGL 6950</td>
<td>Sociolinguistics</td>
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<td>ENGL 6955</td>
<td>Advanced Linguistics</td>
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<tr>
<td>ENGL 6958</td>
<td>English Grammar</td>
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<td>ENGL 6993</td>
<td>Discourse Theory</td>
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<td>ENGL 6998</td>
<td>Professional Writing Internship</td>
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<tr>
<td>or ENGL 6999</td>
<td>Thesis</td>
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**Total Semester Hours** 30

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**Thesis and Portfolio Options**

All M.A. students must submit a thesis or portfolio. Handouts on thesis and portfolio guidelines and examples of past theses and portfolios are available from the departmental Director of Graduate Studies.

The thesis option is designed especially for, but is not limited to, students planning to pursue a doctorate. Students choosing this option must select a committee consisting of a thesis director and two additional graduate faculty members. This committee must approve a thesis proposal before the student can register for thesis credit. Students must demonstrate through the thesis a familiarity with appropriate sources and an ability to interpret the material and properly document their research. Students selecting the thesis option may count up to three semester hours of thesis credit (ENGL 6999 Thesis) toward their total of 30 semester hours of coursework.

The portfolio consists of selected work written during graduate coursework or as part of a professional internship. The student will present the portfolio to a faculty review committee no later than the eighth week of the semester in which s/he plans to graduate. Students in the Professional Writing and Editing track may count up to three semester hours of credit earned in their professional internship toward the 30 semester hour requirement.

**Learning Outcomes**

English graduate students will demonstrate the ability to produce professional-quality research papers that could be used as the basis for conference presentations or professional publications.

English graduate students will demonstrate the use of a variety of interpretive strategies for analyzing multiple kinds of texts, including close reading, contextual analysis, analysis of form and genre, and rhetorical analysis.

English graduate students will demonstrate the use of theories related to the representation of culture, race, class, gender, and sexuality to interpret literary texts.

English graduate students will demonstrate the ability to participate in the professional life of the field as scholars, teachers, editors, and/or writers.

**Graduate Courses**

**ENGL 6900 Methods of Literary Research** 3 s.h.
Basic concepts and methods of literary research and analysis.

**ENGL 6901 Methods of Composition Research** 3 s.h.
Theories and methods of composition research; emphasis on strategies for conducting, analyzing, and writing about classroom and workplace studies.

**ENGL 6902 Literary Thought** 3 s.h.
May focus on particular theoretical approaches or provide an overview of literary criticism. May be repeated once with a different topic.

**ENGL 6906 Teaching of Literature** 3 s.h.
Problems, issues, practices, and research that affect the teaching of literature at various grade levels and in college courses.

**ENGL 6907 Teaching of Writing** 3 s.h.
Problems, issues, practices, and research that affect the teaching of writing at various grade levels and in college courses.

**ENGL 6911 The Medieval World** 3 s.h.
Study of selected literary works reflecting medieval thought and culture. May be repeated once with a different topic.

**ENGL 6912 Sixteenth- and 17th-Century British Studies** 3 s.h.
Nondramatic literature of the British Renaissance. May be repeated once with a different topic.

**ENGL 6913 Shakespeare and Renaissance Drama** 3 s.h.
Varying emphases on the dramatic works of Shakespeare and/or his contemporaries. May be repeated once with a different topic.

**ENGL 6914 Restoration and 18th-Century British Studies** 3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

**ENGL 6915 Early American Studies** 3 s.h.
Prose, poetry, and/or drama from the colonial period up to the early 19th century examined in their historical and cultural contexts. May be repeated once with a different topic.

**ENGL 6916 Nineteenth-Century British Studies** 3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

**ENGL 6917 Nineteenth-Century American Studies** 3 s.h.
Examines 19th-century American literature and culture through particular themes, genres, styles, periods, and/or figures. May be repeated once with a different topic.
ENGL 6918 Studies in Children's Literature 3 s.h.
Contemporary children's literature. Emphasis may be on development, trends, critical standards, cultural context, classroom selection and use. May be repeated once with a different topic.

ENGL 6919 Studies in Young Adult Literature 3 s.h.
Contemporary young adult literature. Emphasis may be on development, trends, critical standards, cultural context, classroom selection and use. May be repeated once with a different topic.

ENGL 6920 Twentieth-Century British Studies 3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

ENGL 6922 Twentieth-Century American 3 s.h.
Studies. Examines works in relation to the history and social and cultural developments of the period. Nonliterary texts may be included, such as film, visual arts, and music. May be repeated once with a different topic.

ENGL 6923 Working Class Literature 3 s.h.
A study of working-class literature, culture, and artistic production, with emphasis on the literary history, the material conditions, and the intersection of race, ethnicity, gender, and sexual orientation in the works of literature by and about the working class.

ENGL 6927 Historical Survey of Literature for Young People 3 s.h.
Survey of historical developments from the 18th through mid-20th centuries in British and American literature for young people.

ENGL 6935 Studies in Romanticism 3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

ENGL 6943 Technical Communication 3 s.h.
In-depth discussion of audience, format, document design, and corporate structure. Focus on refining skills and providing theoretical support for practical applications.

ENGL 6944 Document Design and Production 3 s.h.
Application of computer software and hardware to design and produce professional/technical documents.

ENGL 6945 Theory of Professional and Technical Communication 3 s.h.
Examines theory and research in professional and technical communication with emphasis on the application of theoretical concepts and empirical findings to practical problems in the field. Introduces students to theories and research methods through reading in current literature and through class research projects.

ENGL 6946 Historical Editing 3 s.h.
Project-based approach to theoretical and practical aspects of editing historical and literary documents for both print and digital contexts. Topics include document selection, transcription, verification, and annotation, as well as the implications for teaching and learning using traditional print and electronic archives and texts.

Cross-listed: HIST 6946.

ENGL 6947 Proposal Writing 3 s.h.
Graduate level introduction to the structural, rhetorical, and linguistic aspects of professional proposals, with a focus on grant proposals. Students examine the role of proposals in serving the needs and interests of organizations and individuals. Requirements include writing one grant proposal for a client and one other type of proposal (e.g., a research project proposal or book prospectus).

ENGL 6948 Healthcare Communication 3 s.h.
Graduate level introduction to how healthcare information is conveyed by healthcare researchers, providers, and writers, to experts and non-experts. Students examine how people find and use medical information in making healthcare decisions. Students consider issues of health literacy, research methods, ethics, public and private clinical communication, patient education, and visual design. Requirements include writing a report on a medical talk, a healthcare-related press release, and a client-based healthcare communication project.

ENGL 6949 Professional and Technical Editing 3 s.h.
A study of the skills needed to make appropriate changes in the content, grammar, mechanics, style, format, and organization of manuscripts for scholarly, trade, journalistic, and other professional publications. The course deals with stages in the publishing process, hard-copy versus online editing, mechanical and substantive editing, and the use of house and press styles.

ENGL 6950 Sociolinguistics 3 s.h.
An investigation of the relationship between language and society. Includes discussion of dialects and standard languages, language planning, linguistic identity, multi- and bilingualism, class, gender, ethnicity, and social interaction.

ENGL 6951 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.

ENGL 6952 Linguistics of Literacy 3 s.h.
An investigation of the linguistic, social, and cultural dimensions of literacy. The course covers theoretical frameworks of language and literacy, the relationship between speech and writing, cultural notions of literacy, and the acquisition of literacy in first and additional languages.

ENGL 6953 Publications Issues and Management 3 s.h.
Exploration of the issues involved in managing and producing professional publications, including publications in students' own fields. Focus on organizational, editorial, and authorial voice; editorial policies; audience analysis; and the processes by which publications are conceived, designed, and produced.

ENGL 6955 Advanced Linguistics 3 s.h.
In-depth study of selected issues in contemporary linguistic theory.

ENGL 6956 TESOL Methods 3 s.h.
Introduction to teaching English as a second language (ESL) including reading, writing, listening, and speaking. Focus will be on using communicative methods with nonnative speakers.

ENGL 6957 TESOL Practicum 3 s.h.
Supervised teaching in an English as a second language (ESL) program. Additionally, weekly seminar attendance is required.

ENGL 6958 English Grammar 3 s.h.
Descriptions and analysis of English grammar structure.

ENGL 6960 Studies in Linguistics 3 s.h.
Examines a specific topic such as stylistics, semantics, sociolinguistics, second language acquisition, TESOL, or computational linguistics. May be repeated twice with a different topic.

ENGL 6963 Perspectives in Multicultural Studies 3 s.h.
An advanced study of primary and secondary texts from the field of multicultural literature and multicultural education. The course will emphasize the formation of social identities, the intersections of race, class, and gender, relationships among dominant and non-dominant subjects in U.S. and other global cultures. The course will pay special attention to the theory and application of multicultural paradigms to education, professional work, and graduate study. May be repeated once with a different topic.

ENGL 6965 Studies in Film 3 s.h.
Analysis of motion pictures and their creators; topics may include classic and contemporary styles, genres, and methods of production, as well as film theory and criticism. May be repeated once with a different topic.
ENGL 6966  Writing of Poetry  3 s.h.
Discussion and application of approaches, techniques, and forms involved in the writing of poetry. May be repeated once with a different topic.

ENGL 6967  Writing of Prose  3 s.h.
Discussion and application of approaches, techniques, and forms involved in the writing of fiction and/or nonfiction. May be repeated once with a different topic.

ENGL 6968  Studies in Literary Form  3 s.h.
Examines forms such as poetry, the novel, the short story, essay, biography, autobiography, or travel literature. Emphasis may be on definition, development, cultural context, figures, or themes. May be repeated once with a different topic.

ENGL 6969  Writing the Youth Novel  3 s.h.
Discussion and application of approaches, techniques, and forms involved in the writing of novels.

ENGL 6974  English Education Workshop  1-3 s.h.
Intensive study and activity in a topic related to teaching English and the language arts. Does not count toward degree credit. Grading is S/U. May be repeated.

ENGL 6975  English Education Seminar  1-3 s.h.
Approaches to teaching English and the language arts. May be repeated once with a different topic.

ENGL 6976  Studies in English Education  3 s.h.
Theories, issues, and/or criticism in the teaching of English. May be repeated once with a different topic.

ENGL 6989  Teaching Practicum  1-3 s.h.
Techniques and strategies for teaching college composition, including course design and classroom practice. Required of and limited to graduate assistants who are teaching in the English Department. First-year graduate assistants must register for three semester hours of Teaching Practicum in two successive semesters for a total of six semester hours. Does not count toward degree credit. Grading is S/U.

ENGL 6990  Special Topics  3 s.h.
May be repeated once.

ENGL 6991  Special Topics MFA  3 s.h.
Special topics in literature and creative writing for students in the Master of Fine Arts (MFA) program in creative writing. May be repeated once. Prereq.: Acceptance in the MFA program.

ENGL 6992  Professional Communication  3 s.h.
Focus on a selected topic in technical writing or professional communication (e.g., proposal writing, science writing, computer documentation, nonfiction prose). May be repeated once with a different topic.

ENGL 6993  Discourse Theory  3 s.h.
Examination and discussion of contemporary theories of discourse analysis, with some attention to the history and development of rhetorical theory.

ENGL 6997  English Internship  1-3 s.h.
Supervised work-and-learning experience in English under the direction of an English Department faculty member and an employee of a participating firm. Ten to 20 hours a week of student time are expected. Enrollment is contingent upon the availability of internships. Students are selected on the basis of personal qualifications, including GPA, courses taken, recommendations, and an interview. Either ENGL 6997 or ENGL 6998 may count toward the degree, not both.

ENGL 6998  Professional Writing Internship  1-3 s.h.
Supervised work-and-learning experience in professional communication under the direction of a University faculty member and an employee of a participating firm. Ten to 20 hours a week of student time are expected. Enrollment is contingent upon the availability of internships. Students are selected on the basis of personal qualifications, including GPA, courses taken, recommendations, and an interview. Either ENGL 6997 or ENGL 6998 may count toward the degree-not both.

ENGL 6999  Thesis  1-3 s.h.
Thesis. Prereq.: Thesis proposal accepted by departmental committee.

Master of Arts in Financial Economics

Program Director
Dr. Jeremy Schwartz
Williamson Hall 3382
(330) 941-3076
jtschwartz@ysu.edu

Program Description
The Master of Arts in financial economics program is designed to provide students with a background in economic theory and to teach students how to analyze financial markets. This program is intended to lead to professional employment in the financial services industry, including banking, insurance, and financial advising. Coursework in the program includes:

- coverage of micro- and macroeconomic theory,
- econometrics,
- time series analysis,
- financial markets,
- management of financial capital, and
- analysis of the valuation of stocks.

Electives allow students an opportunity to pursue additional topics such as international finance. Supplemented by upper-level courses in mathematics, the program can also help prepare students for doctoral study in finance, economics, or related fields.

Combined Bachelors/Masters Program
Highly qualified undergraduate students can apply for admission into the combined “4+1” Bachelors/Masters program for the MA in Economics. See the description of the “4+1” program (http://catalog.ysu.edu/undergraduate/colleges-programs/college-liberal-arts-social-sciences/department-economics/4-1-bachelors-masters-program/) in the undergraduate catalog.

Admission Requirements
In addition to the College of Graduate Studies admission requirements, applicants must have completed at least one course in each of the following areas:

- principles of microeconomics,
- principles of macroeconomics,
- statistics, and
- calculus.

Students who do not meet the requirements may be admitted on a provisional basis. Students with provisional admission are required to take undergraduate coursework to fulfill the admission requirements. With the permission of the Graduate Coordinator they may also be allowed to simultaneously take a limited number of masters-level courses.

Graduate Faculty
Huaiyu (Peter) Chen, Ph.D., Associate Professor
Equity market; abnormal return
Ou Hu, Ph.D., Professor
Financial markets; international finance; asset pricing
Tomi P. Ovaska, Ph.D., Professor
Public finance; comparative economic systems; entrepreneurship; international trade; behavioral economics

Joseph Palardy, Ph.D., Professor
Macroeconomics; time series econometrics

Albert J. Surnell, Ph.D., Professor
Urban, housing, and environmental economics

Yogesh Uppal, Ph.D., Professor
Applied microeconomics; applied econometrics; public economics; political economy; development economics

Yaqin Wang, Ph.D., Professor
Futures markets; behavioral economics

Degree Requirements

Students must complete 30 semester hours (excluding 3 semester hours for Econ 6904) of graduate credit with a grade point average of 3.0 or higher for the MA in financial economics. The requirements for the degree include the following required courses plus one elective that account for a total of three semester hours for students who choose the non-thesis option. Students who need to reinforce their quantitative skills will be asked to take Econ 6904, which does not count towards the 30 semester hours.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ECON 6912</td>
<td>Microeconomic Theory</td>
<td>3</td>
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<tr>
<td>ECON 6922</td>
<td>Macroeconomic Theory</td>
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<tr>
<td>ECON 6939</td>
<td>The Economics of Financial Markets and Institutions</td>
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<td>ECON 6976</td>
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<td>Applied Time Series Analysis and Forecasting</td>
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<td>FIN 6902</td>
<td>Financial Accounting and Finance for Decision Making</td>
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<td>FIN 6912</td>
<td>Financial Statement Analysis</td>
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<td>FIN 6923</td>
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<td>3</td>
</tr>
<tr>
<td>FIN 6924</td>
<td>Securities Analysis</td>
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</tr>
</tbody>
</table>

Electives

Select one 3 sh elective                                                   3

Total Semester Hours                                                        32

6900-level graduate courses in Economics or Finance can be used as electives (the one exception is Econ 6921, which does not count towards the degree). The elective may be either a 5800-level economics swing course or a graduate-level course outside of finance or economics that has been approved by the graduate coordinator.

Thesis Option

Students may write a thesis expanding on their project in the Research Seminar (ECON 6998) in place of the three hour elective. Students selecting the thesis option must earn a grade of B or A in the Research Seminar and submit a thesis proposal with the names of three faculty members who are willing to serve on a thesis committee to the department chair prior to registering for thesis credit hours (ECON 6999). The student must defend the thesis in an oral examination before a committee of three or more faculty members of the department. The thesis must be submitted according to the general requirements of the College of Graduate Studies.

Learning Outcomes

1. The students will demonstrate how to measure, detrend, and analyze macroeconomic variables such as GDP and inflation.
2. The students will evaluate monetary and fiscal policy using various versions of the IS-LM model.
3. The students will demonstrate the importance of expectations in current macroeconomic theory.
4. The students will compare the basic theories and models of Neoclassical and New-Keynesian Economics.
5. The student will solve for utility-maximizing and cost-minimizing outcomes using calculus.
6. The student will mathematically model the behavior of firms in competitive markets and firms who are monopolies.
7. The student will calculate the welfare losses due to a lack of competition.
8. The student will use an econometric approach to model economic phenomenon, estimate the resulting model, and interpret the estimated regression coefficients.
9. The student will demonstrate how to conduct a literature search of professional economic journals using EconLit.
10. The student will demonstrate knowledge of the various financial markets, instruments, agents, functions, and intermediaries.
11. The student will demonstrate knowledge of hedging versus speculating, primary and secondary markets for mortgage loans, and markets for future and options contracts.
12. The student will demonstrate knowledge of the market interest rates swaps, and how to use financial instruments to hedge against interest risk.
13. The student will demonstrate how to use financial models to aid managers in making value maximizing choices.
14. The student will demonstrate an understanding of the allocative role and function of financial markets, securities, and corporate financial decisions in a market economy.
15. The student will demonstrate the importance of finance as a vital function within an organization that necessitates diligence and high ethical standards in application
16. The student will demonstrate knowledge of the link between theoretically sound financial techniques and value judgment.
17. The students will demonstrate how to diagnose the characteristics of a time series (including linear trend, stochastic trend, seasonality, cycles, and other irregular patterns).
18. The students will learn how to apply appropriate forecasting methods to forecast economic and business data; as well as learn how to evaluate the performance of competing forecasting methods.
19. The students will learn how to use the vector autoregression model and vector error correction model to analyze the relationships among multiple time series and demonstrate how to interpret the estimated results from those models.

Graduate Courses

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, Institutionalisnts 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 economies. 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. Discussions 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 5890 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 6939 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 6940 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-Scholes model, diffusion processes, and risk management. Also listed as STAT 6988.  
Prereq.: STAT 4843 or STAT 6943 or ECON 6976.

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 of 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.

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 so they are able to use financial statements to 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.

Master of Arts in Gerontology

As of fall 2021, admission to the graduate program in Gerontology has been suspended.

Applications to the program are not being accepted at this time.

Program Director
Daniel J. Van Dussen, Ph.D.
DePizzo Endowed Chair of Gerontology

Professor of Gerontology
440 DeBartolo Hall
(330) 941-1683
djvandussen@ysu.edu

Program Description
The curriculum is designed from an interdisciplinary perspective of gerontology with a focus on epidemiology and health. This program will provide students with advanced education in issues facing older adults, for the purpose of preparing them for advancement in the field of gerontology. The program allows for a Thesis or a Non-Thesis track based upon the students’ desires and goals. The program consists of 36 semester hours, which may be completed in four semesters of full-time coursework or six semesters part time.

Admission Requirements
In addition to the minimum criteria set by the College of Graduate Studies, applicants must meet the following requirements for full admission:
1. A cumulative Grade Point Average of at least 3.0 (on a 4.0 scale).
2. Three (3) letters of recommendation from individuals familiar with the students’ academic or professional background.
3. A letter of intent stating their objectives for seeking a Master’s Degree in Gerontology and how this program will help them fulfill their goals.
4. A personal interview is optional.
5. A Resume or Curriculum Vitae.
6. A social statistics course at the undergraduate or graduate level.

Graduate Faculty
Tiffany F. Hughes, Ph.D., Associate Professor
Cognitive impairment and dementia; fall prevention; health promotion

Daniel J. Van Dussen, Ph.D., Professor
Social and psychological determinants of health among older adults; the family; social support; statistics and methods

Amy Weaver, Ph.D., Associate Professor
Geriatric education; geriatrics; simulation

Degree Requirements
The Master of Arts in Gerontology will consist of 12 courses (36 credit hours) which can be completed over a 2 academic year period.

Thesis Option
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>GERO 6915</td>
<td>Service Delivery Aging Policy</td>
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<tr>
<td>GERO 6905</td>
<td>Social Gerontology</td>
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<tr>
<td>PSYC 6957</td>
<td>Advanced Adult Development and Aging</td>
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<tr>
<td>GERO 6906</td>
<td>Perspectives in Gerontology</td>
<td>3</td>
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<tr>
<td>GERO 6960</td>
<td>Epidemiology of Aging</td>
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<tr>
<td>GERO 6999</td>
<td>Research Methods</td>
<td>3</td>
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<tr>
<td>GERO 7090</td>
<td>Field Practicum</td>
<td>3</td>
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<tr>
<td>GERO 7094</td>
<td>Selected Topics</td>
<td>3</td>
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Elective
Select 9 s.h. from the following:
- GERO 6998 Anatomy and Physiology of Aging
- PSYC 6959 Behavior Change Interventions and Aging
- GERO 7001 Long-Term Care
- SCWK 7006 Social Work in Aging
- GERO 7090 Field Practicum
- GERO 7094 Selected Topics

Total Semester Hours 36

Non-Thesis Option
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<td>Epidemiology of Aging</td>
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</table>
Variable credit 1-3 hours may be repeated for up to 6 credit hours.

Examples of subject areas that may be covered: Nutrition, Pharmacology, Legal, etc. An examination of contemporary topics in the field of gerontology.

**GERO 7094 Selected Topics** 3 s.h.

Variable credit 1-6 s.h. May be repeated for up to 9 s.h.

Students will complete a 200-hour placement in an aging-related workplace.

**GERO 7090 Field Practicum** 1-9 s.h.

**GERO 6999 Research Methods** 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.

**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.

### Master of Arts in History

**Program Director**

Dr. Martha Pallante - Interim Director

104 DeBartolo Hall

(330) 941-3408

mipallante@ysu.edu

Dr. Daniel Ayana

541 DeBartolo Hall

(330) 941-1699

dayana@ysu.edu

**Program Description**

The Department of History offers a graduate program leading to the Master of Arts degree. Its curriculum combines American, European, and Transnational/Global areas. The program prepares students for:

- Doctoral study in history or related fields,
- Advancement in secondary and elementary education with a concentration in history and the social sciences,
- Certification in applied history, and/or
- Additional graduate study in a variety of professional areas.

The program also provides the knowledge base for those pursuing history as an avocation. The program concentrates on research and primary materials, written analysis of research results, study of important monographs in all fields of history, and training in a number of specialized fields, such as oral history and historic preservation. The department prides itself on its small classes and close personal attention to all of its master's candidates.

### Admission Requirements

Regular admission will be granted to those students who:

1. Hold a bachelor’s degree from an accredited college or university
2. Have earned an undergraduate cumulative grade-point average of at least 2.75 on a 4.0 scale
3. Have a minimum of 16 credit hours of study in the field of history
4. Have submitted a score on the Graduate Record Examination
5. Have submitted a satisfactory academic writing assignment.
6. The above will be compiled and a score of at least 350 points must be achieved from the following calculation:
   Undergraduate GPA multiplied by 100, plus percentile scores from the verbal and written-essay sections of the GRE.
   Thus, a student with an undergraduate GPA of 3.25, a verbal GRE at 50th percentile, and written essay at 35th percentile would score
   \[325 \times 50 + 35 \times 410\]
   (The score for the GRE quantitative section will not be assessed.)

   Students not meeting these requirements may be considered for provisional admission or non-degree status instead.

### Graduate Faculty

**Daniel Ayana, Ph.D., Professor**

Africa; social and economic history

**Brian Bonhomme, Ph.D., Professor**

Nineteenth- and twentieth-century Russian history; environmental history

**Eleanor A. Congdon, Ph.D., Associate Professor**

YSU 2021-2022 Graduate Catalog
Medieval; Renaissance; Mediterranean world; maritime history

Amy Fluker, Ph.D., Assistant Professor
Nineteenth century US; Civil War; culture; memory; gender

Jacob Labendz, Ph.D., Assistant Professor
Jewish history; European history; Holocaust and genocide studies; nationalism, antisemitism, and racism; Communism and the Cold War; governance and authoritarianism; diaspora and migration; politics and culture of food; film and memory studies

Thomas E. Leary, Ph.D., Associate Professor
Historic preservation; labor and industrial history

Martha Pallante, Ph.D., Professor
Early American studies; material culture; pedagogy

David A. Simonelli, Ph.D., Professor
Britain, British Empire

Fred W. Viehe, Ph.D., Professor
History of the NEOEA

Degree Requirements
The Department of History offers three tracks to candidates for a Master of Arts degree in history.

1. Track I is designed primarily for students who wish to continue studies toward a doctorate.
2. Track II is designed primarily to meet the needs and improve the effectiveness of secondary teachers.
3. Track III, the certificate in applied history, is designed to prepare students for career opportunities in that field.

Each candidate for the M.A. in history must pass a written and an oral examination in three fields of concentration. The examination will require factual and interpretative material, as well as bibliography and historiography. Students may only take their comprehensive exams if they are in Good Standing with the College of Graduate Studies.

Track I (MA with Thesis)
• A total of 30 semester hours of graduate credit including thesis (six semester hours)
• Completion of HIST 6900 Introduction to Historical Research and HIST 6901 Historiography
• A required thesis
• Successful completion of general written and oral examinations

Students working in American or British history will not, in most instances, be required to pass a foreign language examination. In areas where a foreign language is essential for research, the student will have to meet the requirement set by the department, which will include reading knowledge only (no speaking required).

Before any student under option I is allowed to take the written and oral examinations, the advisor will designate to the chair of the Graduate Committee of the Department of History which foreign language, if any, the student is required to know and how this requirement has to be met.

Students under option I are reminded that the Department of History expects that the thesis shall display a capacity for research in a variety of historical sources and the ability to interpret factual information and shall constitute a properly documented report of the completed research.

Track II (MA with Seminars)
• A total of 33 semester hours of graduate credit
• Completion of HIST 6900 Introduction to Historical Research and HIST 6901 Historiography
• Two satisfactory (B or better) graduate seminar papers submitted to two different instructors. The papers will be deposited with the graduate program director to remain permanently on file. The overall course grade for each seminar must also be ‘B’ or better.
• Successful completion of general written and oral examinations
• Foreign language examination is not required

Track III (MA with Certificate in Applied History)
The M.A. in history with certificate in applied history is designed both to give students a grounding in American history and historical research at the graduate level and to introduce them to ideas and techniques useful in applied history of the built environment. Students earning the certificate may find work with state or local preservation groups, museums, or government agencies. Students choose from among three possible tracks and then complete an additional 18 semester hours as described below. Students completing the appropriate courses may also earn the certificate only, without the M.A. degree, if they so wish.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>HIST 6900</td>
<td>Introduction to Historical Research</td>
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<tr>
<td>HIST 6901</td>
<td>Historiography</td>
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Complete at least one seminar outside of applied history. 3

Complete at least one readings course. 3

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<tr>
<th>TITLE</th>
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<tr>
<td>American Architectural History 1</td>
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<tr>
<td>American Architectural History 2</td>
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<tr>
<td>Conservation of the Historic Built Environment</td>
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<tr>
<td>Applied History</td>
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<tr>
<td>Practicum in Applied History</td>
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<tr>
<td>Applied History Internship</td>
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Option I: Historic Preservation

Option II: Museum Studies

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>HIST 6940</td>
<td>Oral History</td>
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<tr>
<td>HIST 6941</td>
<td>American Material Culture</td>
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<tr>
<td>HIST 6942</td>
<td>Applied History</td>
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<tr>
<td>HIST 6943</td>
<td>Practicum in Applied History</td>
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<tr>
<td>HIST 6944</td>
<td>Applied History Internship</td>
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<tr>
<td>HIST 6955</td>
<td>Museum Curation and Interpretation 1</td>
</tr>
<tr>
<td>HIST 6956</td>
<td>Museum Curation and Interpretation 2</td>
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</tbody>
</table>

Option III: Applied History Sequence

Select at least one course from one of the options listed above that is not the student’s primary option. 3

HIST 6900 | Introduction to Historical Research | 3
HIST 6901 | Historiography | 3

Complete at least one seminar outside of applied history. 3

Complete at least one readings course. 3
Complete two satisfactory (B or better) graduate papers submitted to two different instructors. One shall be from a history seminar and must be a research paper using primary sources. The other shall be based upon a paper begun in an applied history course, expanded through additional research and reading as directed by the instructor. The papers will be deposited with the graduate program director to remain permanently on file.

Successful completion of general written and oral examinations
Foreign language examination is not required.

Total Semester Hours 33

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 employ the skill of the historian to produce an original research project(s) based on primary and secondary sources.

Graduate Courses

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.

HIST 6900 Introduction to Historical Research 3 s.h.
Instruction in the basic tools and techniques of historical research. Required of all candidates for advanced degrees in history.

HIST 6901 Historiography 3 s.h.
An introduction to the professional study of history, including an examination of the sources and nature of historical knowledge, historical criticism, and synthesis. Required of all candidates for advanced degrees in history.

HIST 6910 Readings in American History 3 s.h.
Readings in the standard works and monographic studies to meet the requirements of qualified graduate students who wish intensive concentration in specific areas of American history. May be repeated with permission of instructor.

HIST 6912 Research Seminar in American Colonial History 3 s.h.
Selected problems of early American history. May be repeated with permission of instructor.

HIST 6913 Research Seminar in 19th-Century America 3 s.h.
Selected problems of American history, 1800-1865. May be repeated with permission of instructor.

HIST 6914 Research Seminar in 20th-Century America 3 s.h.
Selected problems of American history in the 20th century. May be repeated with permission of instructor.

HIST 6920 Readings in European Literature 3 s.h.
Readings in the standard works and monographic studies to meet the requirements of qualified graduate students who wish intensive concentration in European history. May be repeated with permission of instructor.

HIST 6921 Research Seminar in Medieval Culture and Society 3 s.h.
The main intellectual and social currents of the Middle Ages. May be repeated with permission of instructor.

HIST 6922 Research Seminar in Renaissance and Reformation 3 s.h.
Trends and aspects of the Renaissance and Reformation. May be repeated with permission of instructor.

HIST 6923 Research Seminar in 17th-Century Europe 3 s.h.
Dutch Commercial Enterprise, the France of Louis XIV, Austria and the Empire, emergence of Brandenburg-Prussia, rise of modern science, the Age of Reason, and the development of the Baroque in arts and literature.

HIST 6924 Research Seminar in 18th-Century Europe 3 s.h.
Selected areas of the Enlightenment, Old Regime, and the French Revolution. May be repeated with permission of instructor.

HIST 6925 Research Seminar in 19th-Century Europe 3 s.h.
The Napoleonic and Post-Napoleonic Era and the rise of nationalism in Europe. May be repeated with permission of instructor.

HIST 6926 Research Seminar in 20th-Century Europe 3 s.h.
Investigation of the causes of the great wars, the rise of totalitarianism, and the Cold War. May be repeated with permission of instructor.

HIST 6927 Research Seminar in Russian History 3 s.h.
Selected problems of Russian history. May be repeated with permission of instructor.

HIST 6928 Research Seminar in British Empire 3 s.h.
An examination of major problems confronting the British Empire after 1783. May be repeated with permission of instructor.

HIST 6929 Research Seminar in English History 3 s.h.
An examination of selected problems in the political, social, economic, and intellectual history of England. May be repeated with permission of instructor.

HIST 6930 Readings in World History 3 s.h.
Readings in the standard works and monographic studies to meet the requirements of qualified students who wish concentration in world history. May be repeated with permission of instructor.

HIST 6932 Research Seminar in Middle Eastern History 3 s.h.
This course will deal with topics from the ancient Near East down to the contemporary clash of nationalisms in the Middle East. May be repeated with permission of instructor.

HIST 6934 Readings in African History 3 s.h.
Readings in the standard works and monographic studies to meet the requirements of qualified graduate students who wish intensive concentration in African history. May be repeated with permission of instructor.

HIST 6935 Research Seminar in African History 3 s.h.
Selected problems in the political, social, economic, and intellectual history of Africa. May be repeated with permission of instructor.

HIST 6939 Labor in US History 3 s.h.
Emphasis on work processes, workforce composition, and labor organizations in the industrial Midwest.

HIST 6940 Oral History 3 s.h.
Instruction in methods of taking, processing, and utilizing oral depositions relating to history. The course includes assignments in the field. May be repeated once.
HIST 6941  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. The emphasis will be on
nontraditional sources. Examples include children’s books, sacred spaces, and
foodways.

HIST 6942  Applied History  3 s.h.
This course provides an overview of the field of applied history. Topics include
historic preservation, museum studies, heritage tourism, archives and related
topics.

HIST 6943  Practicum in Applied History  3 s.h.
Examines problems in the field of applied history through student participation
in a wide variety of community-based projects.
Prereq.: HIST 3715 Introduction to Historic Preservation, HIST 6942, or
instructor’s permission.

HIST 6944  Applied History Internship  3 s.h.
Practical application of principles and methods in the field of applied history
with the goal of producing a completed project. Internship to be selected by
the student in conjunction with the Program Director. May be repeated once.
Prereq.: HIST 6942 and approval of program director.

HIST 6945  Interpretation and Preservation of the Industrial Built
Environment  3 s.h.
Through lectures and readings, this course examines and interprets the
industrial built environment. This includes, but is not limited to, factories,
neighborhoods, infrastructure, and commercial districts that make up the
fabric of industrial communities.
Prereq.: Graduate standing and completion of HIST 6942 or permission of
instructor.

HIST 6946  Historical Editing  3 s.h.
Project-based approach to theoretical and practical aspects of editing
historical and literary documents for both print and digital contexts. Topics
include document selection, transcription, verification, and annotation, as
well as the implications for teaching and learning using traditional print and
electronic archives and texts.
Cross-listed: ENGL 6946.

HIST 6950  Studies in the Teaching of History  3 s.h.
Investigation and discussion of the research and some of the underlying
assumptions in the teaching of history; with implications for the teacher
of social studies in the secondary schools and for the prospective history
professor. Degree students may receive credit for this course only once.

HIST 6951  Special Topics in History  1-3 s.h.
Special topics in history selected by the staff. May be repeated up to six
semester hours.

HIST 6952  Independent Study  1-3 s.h.
Individual study in concentrated areas of history under the supervision of a
staff member. May be repeated.
Prereq.: Permission of the instructor and the graduate director.

HIST 6953  Research, Thesis  1-6 s.h.

HIST 6955  Museum Curation and Interpretation 1  3 s.h.
An introduction to curatorial and interpretive work in a museum setting.
Students will learn how to acquire and catalog objects and other materials;
plan, research, and write an exhibit; and select objects and images for an
exhibit.
Prereq.: HIST 6942.

HIST 6956  Museum Curation and Interpretation 2  3 s.h.
The exhibit planning begun in HIST 6955 will continue in this course, where the
exhibit will actually be prepared and installed.
Prereq.: HIST 6955 and permission of the instructor.

HIST 6957  Special Topics in Applied History  3 s.h.
This course will focus on topics selected by the applied history faculty.
Prereq.: HIST 6942.

HIST 6958  Historic Preservation Law  3 s.h.
The study, theory, and practice of law as it relates to historic preservation.
Prereq.: HIST 3715 or HIST 6942.

Master of Arts in Professional
Communication

Program Director
Shelley Blundell, Ph.D.
2029 Bliss Hall
(330) 941-1839
sblundell@ysu.edu (rmcurnalia@ysu.edu)

Program Description

The Master of Arts degree in Professional Communication is designed for
professionals in any organizational setting who wish to develop advanced
communication knowledge and skills, as an end in itself or as preparation for
a doctoral degree. In profit and non-profit, academic or non-academic settings,
the program learning outcomes will be beneficial to anyone, but especially to
managers and administrators.

Graduates will:

• demonstrate how theory guides practice in professional communication;
• write effectively for multiple audiences using current technologies;
• develop strategies for effective organizational marketing;
• acquire advanced analytical and research skills appropriate to
  organizations;
• gain effectiveness in face-to-face and computer mediated interpersonal
  relationships; and
• appreciate ethical communication choices necessary for today’s
  professionals.

Admission Requirements

In addition to the College of Graduate Studies admission requirements, to be
admitted to the MA program, students must submit the following information
for consideration.

• A current resume outlining academic and professional experience
• A letter of interest explaining how the candidate’s academic and/or
  professional experience and goals align with the MA program
• Official transcript(s) documenting a minimum cumulative GPA of 3.0 on
  a 4.0 scale. The applicant must send one transcript from each college or
  university attended, except YSU, to Graduate Admissions in Coffelt Hall.
• Three completed recommendation forms
• Evidence of graduate-level writing and critical thinking skills in the form of
  any one of the following:
  • a 5 to 10 page individual writing sample,
  • a score of 3.5 or higher on the GRE Analytical Writing assessment,
  • a score of 155 of higher on the GRE Verbal assessment.

Students who do not meet the requirements for admission to the MA program
may be admitted on a provisional basis with a score of 3.5 or higher on the
GRE Analytical Writing assessment.

Faculty Research Interests

Communication Studies
Shelley Blundell, Ph.D., Assistant Professor
Information literacy needs assessment and instruction for academically at-risk
groups; needs assessment and instruction for developmental undergraduate
students; media framing of sexual assault and societal impacts; accessibility
and universal design in online instruction and information resources;
archival literacy; (social) media literacy and metaliteracy development in undergraduate students

Rebecca M. L. Curnalia, Ph.D., Professor
Informational and emotional content and effects of political communications; informational and emotional processing; political knowledge; political attitudes; vote choice; political motives; fear appeals; gender bias; grassroots campaigns

Adam C. Earnheardt, Ph.D., Professor
Sports media and fandom; media ethics; social media platforms; applications and campaigns; interpersonal and organizational conflict management and negotiation; public speaking and communication pedagogy

Cary Wecht, Ph.D., Professor
Nexus of media use and interpersonal communication; communibiology paradigm; business communication; use of media during 9/11; reality television

English (Professional AND TECHNICAL WRITING)
Diana Awad-Scrocco, Ph.D., Associate Professor
Professional and technical writing; medical rhetoric and communication; composition pedagogy; writing center theory and practice

Jay L. Gordon, Ph.D., Associate Professor
Rhetoric; technical and professional communication; document design; pedagogy of writing

Kendra Fowler, Ph.D., Associate Professor
Services marketing; retailing

Bruce Keillor, Ph.D., Professor, Chair
Marketing strategy; firm-level political strategy; cross-cultural marketing

Christina Saenger, Ph.D., Associate Professor
Consumer behavior; social media; identity; branding

Doori Song, Ph.D., Associate Professor
Advertising effect; consumer motivation; information processing; emerging media

Emre Ulusoy, Ph.D., Associate Professor
Contemporary consumption; consumer sociology

Ying Wang, Ph.D., Professor
Integrated marketing communication; brand communication; international marketing; e-marketing

The Master of Arts in Professional Communication will draw on the coursework and strengths of a concentration on Communication Studies (in the Department of Communication), while allowing students to pursue non-Communication Studies elective options in two additional areas:

1. Professional Writing and Editing (in the Department of English), and
2. Marketing (in the Department of Marketing through the OMBA program).

Students will take courses according to the following plan:

### Thesis Option

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<tr>
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<tbody>
<tr>
<td>Core Courses</td>
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<td>9</td>
</tr>
<tr>
<td>CMST 6900</td>
<td>Introduction to Graduate Study</td>
<td></td>
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<tr>
<td>CMST 6980</td>
<td>Applied Research Methods</td>
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<tr>
<td>CMST 6990</td>
<td>Measurement and Analysis</td>
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<tr>
<td>Choose three Professional Communication Skills courses from the options below</td>
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<td></td>
<td>Persuasion and New Media</td>
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<td></td>
<td>Computer Mediated Communication Research</td>
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<td>Group Dynamics: Theory and Research</td>
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<td></td>
<td>Communication for the Classroom Teacher (*Required course for all teaching assistants as a condition of employment)</td>
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### Capstone (Non-Thesis) Option

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<tr>
<td>CMST 6900</td>
<td>Introduction to Graduate Study</td>
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<td>CMST 6980</td>
<td>Applied Research Methods</td>
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<tr>
<td>CMST 6990</td>
<td>Measurement and Analysis</td>
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<tr>
<td>Choose three Professional Communication Skills courses from the options below</td>
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<tr>
<td></td>
<td>Persuasion and New Media</td>
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<td>Computer Mediated Communication Research</td>
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<td>Group Dynamics: Theory and Research</td>
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<td></td>
<td>Organizational Communication Research</td>
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<tr>
<td></td>
<td>Communication for the Classroom Teacher (*Required course for all teaching assistants as a condition of employment)</td>
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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>CMST 6970</td>
<td>Internship</td>
<td>6</td>
</tr>
<tr>
<td>CMST 6994</td>
<td>Capstone</td>
<td></td>
</tr>
</tbody>
</table>

### Total Semester Hours

30

### Learning Outcomes

1. Understand the communication discipline, our relationship to other disciplines, debates and differences, and your own specialization in the field.
2. Apply, critique, and differentiate between Communication theories, perspectives, principles, concepts, and approaches to studying communication.
3. Engage in Communication scholarship using the research traditions of the discipline with results that contribute to scholarly and professional conversations.
4. Create messages appropriate to the audience, purpose, and context, and reflect on the effectiveness of those messages.
5. Articulate personal beliefs about abilities to accomplish communication goals and evaluate strengths and weaknesses in achieving those goals.
6. Identify, explain, and apply ethical communication principles and practices.

### Graduate Courses

**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 mediation 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.

**Master of Athletic Training**

**Program Director**
Matthew Campbell PhD, AT, ATC

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**307L Beeghly Center**
(330) 941-2576
mjcampbell05@ysu.edu

**Program Description**

The Master of Athletic Training (MAT) degree is offered through the Bitonte College of Health and Human Services. The professional preparation coursework in this program encompass the professional domains of athletic training. The overall objectives of the YSU Athletic Training Education Program are to instruct, evaluate, and provide learning-over-time for students in the following professional domains:

1. **Injury/Illness Prevention and Wellness Protection**: Students identify injury, illness and risk factors associated with participation in sport/physical activity and implement all components of a comprehensive wellness protection plan and injury prevention program.

2. **Clinical Evaluation and Diagnosis**: Students conduct a thorough initial clinical evaluation of injuries and illnesses commonly sustained by the athlete/physically active individual and formulate an initial diagnosis of the injury and or illness for the primary purposes of administering care or making appropriate referrals to physicians for further diagnosis and medical treatment.

3. **Immediate and Emergency Care**: Students provide appropriate first aid and emergency care for acute injuries according to accepted standards and procedures, including effective communication for appropriate and efficient referral, evaluation, diagnosis, and follow up care.

4. **Treatment and Rehabilitation**: Students plan and implement a comprehensive treatment, rehabilitation and/or reconditioning program for injuries and illnesses, including long and short-term goals, for optimal performance and function.

5. **Organizational and Professional Health and Well-being**: Students plan, coordinate and supervise the administrative components of an athletic training program, comply with the most current BOC practice standards and state/federal regulations, and develop a commitment to life-long learning and evidence-based clinical practice.

The MAT Program at YSU prepares students for entry-level athletic training practice across health care settings involving people of all ages. The program is two years with enrollment in five consecutive semesters either with one year at the undergraduate level and one year at the graduate level (accelerated track program) or both years at the graduate level (two-year Graduate School option).

YSU AT students are educated in cognitive and psychomotor skills related to recognition, treatment, and rehabilitation of injuries and illnesses involving the physically active, as well as risk management, health care administration, pharmacology, diagnostic imaging, and medical ethics and legal issues. In addition to the coursework, students are required to complete a minimum number of clinical education hours in a variety of settings.

**Admission Requirements**

- Bachelor degree from an accredited institution
- Minimum 3.00 GPA average (based on 4.0 scale) in all coursework taken for the bachelor degree
- Complete the following prerequisite courses with a minimum grade of "C":
  - Human Anatomy & Physiology I
  - Human Anatomy & Physiology II
  - General Biology I and Lab
  - General Chemistry and Lab
  - Physics and Lab
  - Kinesiology or Biomechanics
  - Exercise Physiology
  - General Psychology
• Normal Nutrition
• Statistics
• Domestic student application deadline: April 15
• International student application deadline: February 15
• Approved Accelerated students should apply via the YSU application (https://ysu.elluciancmrecruit.com/admissions/pages/welcome.aspx)
• All other applicants apply via ATCAS
  • Athletic Training Application Form
  • Three Applicant Recommendation Forms (one must be from a faculty member)
  • A resume or curriculum vitae
  • Proof of 50hrs of athletic training observation
  • A personal statement (2pg maximum) of professional and educational goals to address the following:
    • What are your short- and long-term goals (i.e., education, training, work setting, etc.)
    • Discuss personal and professional influences that led you to want to become an athletic trainer and graduate student.
  • Official Academic Transcripts

Graduate Faculty

Morgan Bagley, Ph.D., AT, ATC, Assistant Professor
Lower limb fatigability; aerobic capacity

Matthew Campbell, Ph.D., ATC, Assistant Professor
Experiential learning in athletic training education; clinical education; youth sports, physical literacy/motor learning; social justice issues in athletic training and athletic training education

Sara Michalisyn, Ph.D., Associate Professor, Assistant Dean
Obesity; diabetes; pregnancy

Jennifer Pintar, Ph.D., Professor
Children with autism and the potential of exercise to reduce stereotypical behaviors; use of strength training to decrease low back pain and improve abdominal strength

Graduate Courses

MAT 6900  Basic Athletic Training Laboratory  1 s.h.
This laboratory course is an introduction to psychomotor skills associated with sports and fitness injury recognition, evaluation and management. The course emphasizes the development of competency in essential entry-level athletic training skills. Topics include injury and illness assessment skills, injury prevention techniques, and prophylactic bracing, taping and support techniques.
Prereq.: Admitted to the program.
MAT 6901  Emergency and Acute Care in Sports Medicine  3 s.h.
This course to prepare students to recognize, assess and treat patients with acute injuries and illnesses and provide appropriate medical referral. This course will include the initial exposure to selected educational competencies and clinical proficiencies focusing on emergency medical procedures (spineboard, splinting, environmental illness, shock, etc.).
Prereq.: Admission into MAT program.

MAT 6905  Psychosocial Aspects of Athletic Injuries  2 s.h.
This course examines issues related to the psychological impact and sociological factors related to exercise, injury, and illness, inactivity and rehabilitation following sports injury. Particular emphasis is placed on developing strategies for identifying problems, intervening, and making referrals for commonly encountered injuries and illnesses.
Prereq.: Admitted to the program.

MAT 6908  Functional Human Gross Anatomy  4 s.h.
The primary tool for learning gross anatomy is the human body. The laboratory plastinates will present a regional approach (e.g., arm region, forearm region, etc.). General introductory and systemic anatomy topics (e.g., circulatory system, nervous system, etc.) will also be presented to help the student integrate the regional focus of the course into a broader anatomical perspective. The introductory section of the textbook is a good source of general information on systemic anatomy. Students are advised to read these chapters as early in the semester as possible, and to refer back to it as systemic anatomy topics are covered in lecture.
Prereq.: restricted to MAT students, instructor approval.

MAT 6910  Clinical Practicum 1  1 s.h.
Introduction to basic clinical experience working in a CAATE approved setting. This course will be a 4-week immersive clinical education experience during the student’s first semester.
Prereq.: Admission to the MAT program.

MAT 6915  Evaluation and Management of Lower Extremity Injuries  4 s.h.
The primary focus is to present a systematic process for accurately evaluating lower extremity musculoskeletal injuries and illnesses commonly seen in the physically active population. This course focuses on the athletic training competencies and proficiencies associated with lower extremity injury assessment and evaluation, risk management and injury prevention, and the acute care of injuries and illnesses.
Prereq.: Admitted to the program.

MAT 6920  Therapeutic Modalities  4 s.h.
This course focuses on the use of therapeutic modalities in the treatment and rehabilitation of the injured athlete. The course will present the physiological and mechanical modalities. Students will investigate the current literature on the safe and effective application of various modalities and their appropriate integration into a well-designed rehabilitation program.
Prereq.: MAT 6900.

MAT 6925  Evaluation and Management of Upper Extremity Injuries  4 s.h.
This course is designed to continue with the development of the injury evaluation process, injury mechanisms associated with common sports injuries, and increased recognition of pathologies associated with a physically active population. Instruction and experience are directed toward the athletic training and competencies and proficiencies associated with the upper extremity, head, and neck recognition, assessment, and evaluation, risk management and injury prevention and implications for acute care.
Prereq.: MAT 6915.

MAT 6930  Clinical Practicum 2  2 s.h.
Involves both a clinical education experience which provides for integration of athletic training psychomotor, cognitive, and affective skills, and clinical proficiencies; and field experience providing informal learning and practice and application of clinical proficiencies in a clinical environment under the supervision of an approved instructor.
Prereq.: MAT 6910.

MAT 6935  Athletic Training Organization and Administration  3 s.h.
This course is a requirement for students in athletic training. It deals primarily with the administrative competencies necessary to accomplish the successful day-to-day operation of an athletic training program and facility.
Prereq.: MAT 6900, MAT 6910.

MAT 6940  Therapeutic Exercise  4 s.h.
A study of the indications, contraindications, physiological effects, special programs, and resistance methods that are used in the prevention and rehabilitation of athletic injuries. The focus of this course is to develop the cognitive competencies necessary for the safe, effective, and evidenced-based application of therapeutic rehabilitation techniques in a physically active patient population.
Prereq.: MAT 6920.

MAT 6945  General Medical Conditions  3 s.h.
Many conditions that beset athletes, performers, and other patients and not musculoskeletal in nature. The athletic trainer must be cognizant of these - and well versed in their diagnosis and management - in order to be fully equipped to administer proper and comprehensive healthcare.
Prereq.: MAT 6901.

MAT 6950  Evidence-Based Practice/Research  3 s.h.
This course will introduce the research process in athletic training. Coursework will address the conception and methodological procedures of designing and pursuing research. The importance of pursuing quality research will be stressed and the procedures necessary to complete this process will be presented. Students will develop skills and a knowledge base that will aid them while conducting and critically reviewing research.
Prereq.: MAT 6930.

MAT 6955  Performance and Health in Sports Medicine  2 s.h.
This course introduces athletic training students how physical activity and nutrients may influence athletic performance and general health. Behavioral change theories as well as knowledge in referrals to other healthcare practitioners will also be discussed.

MAT 6960  Clinical Practicum 3  2 s.h.
Involves both a clinical education experience which provides for integration of athletic training psychomotor, cognitive, and affective skills, and clinical proficiencies; and field experiences providing informal learning and practice and application of clinical proficiencies in a clinical environment under the supervision of an approved instructor.
Prereq.: MAT 6930.

MAT 6970  Pharmacology  3 s.h.
This course serves as an introduction to pharmacology for students pursuing careers in Athletic Training. The molecular world of pharmaceutical processes and cellular biochemical determinants of therapeutic interventions will be explored. An understanding of the fundamental principles of therapies for various conditions will be discussed. Constraints placed on athletes in the performance environment, and correct protocols with medication management for athletes will be discussed.
Prereq.: MAT 6945, MAT 6950.

MAT 6972  Radiology for Athletes  1 s.h.
Further, this course will prepare athletic training students how to communicate with physicians verbally and through written correspondence.
Prereq.: MAT 6915, MAT 6925.

MAT 6975  Advanced Seminar  3 s.h.
This course is designed to explore the identification and treatment of athletic injuries. The information and skills are intended for those students with relatively high level of sophistication in sports medicine. This course is a writing intensive and research oriented upper division course.
Prereq.: MAT 6935, MAT 6950.
The program helps qualified individuals to develop their understanding of decision making, management, leadership, and business strategy & policy concepts, and how to apply these across a variety of business contexts.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/business/mba/).

**Accreditation**

The Master of Business Administration program is fully accredited by the Association to Advance Collegiate Schools of Business (AACSB) International. Fewer than one-third of the 1200 business schools in the United States have earned this prestigious accreditation.

**Admission Requirements**

Admission Criteria: The Response to COVID-19 Pandemic Admission Criteria are in effect only for the following program starts:

- Summer 1-2020
- Fall 1-2020
- Fall 2-2020
- Spring 1-2021
- Spring 2-2021
- Summer 1-2021
- Summer 2-2021
- Fall 1-2021

In response to the COVID-19 pandemic, YSU is expanding the opportunity to earn a Master of Business Administration (MBA). The admission criteria to the program have been revised to create more pathways to admission to increase the opportunity for, and access to, an outstanding educational experience.

The MBA Program offers applicants multiple pathways to admission, many of which do not require a standardized test score and/or full-time professional work experience.

**For Regular Admission**, applicants must meet one of four criteria:

1. Earned an undergraduate degree in business, economics, or S.T.E.M.[3], with a 3.0+ GPA. No work experience or standardized test score required.
2. Earned an undergraduate degree in a discipline other than business, economics, or S.T.E.M.[3], with a 2.7+ GPA and a minimum of 2 years full-time professional work experience[1]. No standardized test score required.
3. Earned a graduate or terminal degree (e.g., PhD, MD, or JD) in any field. No work experience or standardized test required.
4. Earned an active professional certification[2]. No work experience or standardized test score required.

**For Provisional Admission**, applicants must meet one of two criteria:

1. Earned an undergraduate degree (in any field), with a 2.70 to 2.99 GPA and a GMAT (or GRE equivalent) score of 500. No work experience required.
2. Earned an undergraduate degree (in any field), with a 2.5 – 2.7 GPA and a minimum of 5 years of full-time professional work experience. [1] No standardized test score required.

[1] Professional/managerial experience is determined using an applicant’s chronological resume and any requested supporting documents. Professional/managerial experience is not simply a count of the years of employment, but strongly considers the relevance of the full-time experience as it relates to the nature of the program. This is typically demonstrated through a history of full-time positions where an applicant has documentable experience of overseeing people, projects, operations, and/or customer accounts. For strong applicants, the work experience qualification is supported by a career progression evidenced by increased roles, responsibilities, accomplishments and/or formal promotions. Please note: the chronological resume should not include non-professional positions, part-time (i.e., less than 40 hours per week)
professional positions, volunteerism, or internships. These types of work are not considered in assessing the professional/managerial experience criteria.

List of professional certifications eligible for waiver approval: CPA, CFA, CMA, PMP, Six Sigma Black Belt, SHRM-CP, and SHRM-SCP.

S.T.E.M. is collective term for the disciplines of science, technology, engineering and math. S.T.E.M. degrees include: physics, actuarial science, chemistry, biology, mathematics, applied mathematics, statistics, computer science, computational science, psychology, biochemistry, robotics, computer engineering, electrical engineering, electronics, mechanical engineering, industrial engineering, information science, information technology, civil engineering, aerospace engineering, chemical engineering, astrophysics, astronomy, optics, nanotechnology, nuclear physics, mathematical biology, operations research, neurobiology, biomechanics, bioinformatics, acoustical engineering, geographic information systems, atmospheric sciences, educational/instructional technology, software engineering, and educational research.

Admission standards to resume after August 2021:

In addition to the minimum requirements for admission to the YSU College of Graduate Studies, admission to the MBA program is based on a determination of the applicant's professional work experiences and a determination of readiness for the program. This determination incorporates applicant's:

1. cumulative, undergraduate GPA
2. the nature and years of relevant, full-time, managerial and/or professional work experience

Considering these factors, an applicant has two paths to admission.

Experienced Professional Path
For Regular Admission, an applicant must meet one of the following criteria:

- 3.00 - 4.00 GPA: 3 years of full-time professional and/or managerial work experience, OR
- 2.70 - 2.99 GPA: 5 years of full-time professional and/or managerial experience, OR
- 2.70 - 4.00 GPA: An active professional certification from the approved certification list
- 2.70 - 4.00 GPA: Successfully completed another graduate or a terminal degree (e.g., PhD, MD, or JD).

Traditional Path
For Regular Admission, an applicant must meet BOTH of the following criteria:

1. GPA of 3.25 or higher
2. GMAT (or GRE equivalent) score of 500 (or higher)

For Provisional Admission, an applicant must meet ALL THREE of the following criteria:

1. GPA of 2.7 to 3.24
2. GMAT (or GRE equivalent) score of 450 (or higher)
3. 2 years of full-time professional and/or managerial work experience

Additional Requirements (all)

- current chronological resume, which details full-time professional/managerial experience
- one of the following: professional/managerial experience is not simply a count of the years of employment, but strongly considers the relevance of the full-time professional/managerial experience as it relates to the nature of the program. The relevance is typically demonstrated through a history of full-time positions where an applicant has documentable experience of overseeing people, projects, operations, and/or customer accounts. For strong applicants, the work experience qualification is supported by a career progression evidenced by a history of increased roles, responsibilities, accomplishments and/or formal promotions.

Please note, the chronological resume should not include non-professional positions, part-time (i.e., less than 40 hours per week) professional positions, volunteerism, or internships. These types of work are not considered in assessing the professional/managerial experience criteria.

List of professional certifications eligible for waiver approval: CPA, CFA, CMA, PMP, Six Sigma Black Belt, SHRM-CP, and SHRM-SCP.

Graduate Faculty

Rebecca Lee Badawy, Ph.D., Associate Professor
Identity; imposter phenomenon; person-environment fit; leadership; social influence

Patrick J. Bateman, Ph.D., Professor
Social media; privacy and publicness on the Internet; E-commerce; online communities; social and immersive computing environments (e.g., virtual worlds); computer mediated communication; business use of information systems

Ramesh Dangol, Ph.D., Associate Professor
Strategic management; dynamic capabilities; entrepreneurial opportunity recognition; firm failures

Rangamohan V. Eunni, D.B.A., Professor
Strategic management; international strategy; emerging markets

Kendra Fowler, Ph.D., Associate Professor
Services marketing; retailing

Guohong (Helen) Han-Haas, Ph.D., Professor
Leadership and diversity; employee attitudes and team development; social network and multilevel studies

Deepa Gopal Iyer, Ph.D., Assistant Professor
Open innovation; complexity in IS; IS design; requirements engineering; big data; IS security

Bruce Keillor, Ph.D., Professor, Chair
Marketing strategy; firm-level political strategy; cross-cultural marketing

Karin A. Petruska, Ph.D., Professor
Financial accounting and reporting; international accounting; earnings quality and disclosure; analyst following; forensic accounting

Christina Saenger, Ph.D., Associate Professor
Consumer behavior; social media; identity; branding

Jeremy T. Schwartz, Ph.D., Associate Professor, Director
Practice-based case studies; public pensions

Doori Song, Ph.D., Associate Professor
Advertising effect; consumer motivation; information processing; emerging media

Emre Ulusoy, Ph.D., Associate Professor
Contemporary consumption; consumer sociology

Ying Wang, Ph.D., Professor
Integrated marketing communication; brand communication; international marketing; e-marketing

The MBA program is delivered in two modalities of delivery: 100% online and flex-campus (admission suspended for the 2020-2021 academic year due to...
COVID-19).Regardless of the modality of delivery, the program is designed
to prepare individuals for increasing levels of managerial and leadership
responsibilities.

The 30 credit hour degree is achieved by successfully completing:

**100% Online**
1. the MBA core,
2. required courses in Leadership, and
3. a specialization.

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<th>COURSE</th>
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<tbody>
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<td>MBA Core</td>
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<tr>
<td>OMBA 6921</td>
<td>Industrial Economics</td>
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<tr>
<td>OMBA 6922</td>
<td>Cost Based Decision Making</td>
<td>3</td>
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<tr>
<td>OMBA 6923</td>
<td>Corporate Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>OMBA 6944</td>
<td>Operations &amp; Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>OMBA 6955</td>
<td>Marketing Strategy</td>
<td>3</td>
</tr>
<tr>
<td>OMBA 6975</td>
<td>Business Policy and Strategy</td>
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<tr>
<td>Leadership Courses</td>
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<tr>
<td>OMBA 6940</td>
<td>Leadership</td>
<td>3</td>
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<tr>
<td>OMBA 6941</td>
<td>Managing Organizational Talent</td>
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<tr>
<td>SPECIALIZATION (students select only one transcriptable specialization)</td>
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<tr>
<td>Specialization: Digital Marketing</td>
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<tr>
<td>OMBA 6953</td>
<td>Consumers in a Digital World</td>
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<tr>
<td>OMBA 6954</td>
<td>Digital Marketing</td>
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<tr>
<td>Specialization: Healthcare Management</td>
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<tr>
<td>OMBA 6956</td>
<td>Health Care Reform</td>
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<tr>
<td>OMBA 6992</td>
<td>Health and Human Services Planning and Fiscal Management</td>
<td></td>
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<tr>
<td>Specialization: Leadership</td>
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<tr>
<td>Specialization courses are embedded in MBA core (OMBA 6940 and OMBA 6941)</td>
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<tr>
<td>To fulfill degree requirements, students must also complete six (6) credits of coursework from: the specialization courses listed above (OMBA 6953, OMBA 6954, OMBA 6962, OMBA 6992) and/or other PRE-APPROVED, GRADUATE LEVEL coursework (must be applied for prior and allowed on extremely limited basis) and/or graduate-level transfer credit</td>
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**Total Semester Hours** 30

**FLEX-CAMPUS (HYBRID) (Applications to this option are currently suspended.)**
1. the MBA core, and
2. a required specialization in Leadership.

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MBA Core</td>
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<tr>
<td>ECON 6921</td>
<td>Economic Analysis of Markets and Industries</td>
<td>3</td>
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<tr>
<td>ACCT 6922</td>
<td>Cost Based Decision Making</td>
<td>3</td>
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<td>FIN 6923</td>
<td>Corporate Financial Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 6944</td>
<td>Managing Business Processes</td>
<td>3</td>
</tr>
<tr>
<td>MGT 6947</td>
<td>Managing Information &amp; Technology</td>
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<tr>
<td>MGT 6948</td>
<td>Project Management</td>
<td>3</td>
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<tr>
<td>MKTG 6975</td>
<td>Applied Marketing Strategy</td>
<td>3</td>
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<tr>
<td>MGT 6975</td>
<td>Strategic Management</td>
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<tr>
<td>LEADERSHIP SPECIALIZATION (REQUIRED)</td>
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<tr>
<td>MGT 6930</td>
<td>Managing and Leading in Organizations</td>
<td>3</td>
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</tbody>
</table>

**Learning Outcomes**
The Williamson MBA prepares our graduates to be successful:

- Managers, knowledgeable of core business processes, issues, and environments.
- Decision Makers, able to utilize analytical methods to interpret information and business situations.
- Strategic Thinkers, able to evaluate complex business situations.
- Leaders, versed in techniques for motivating and influencing others to achieve business goals.

**Graduate Courses**

**BUS 6920 Global Business Environment 3 s.h.**
The environments and operating issues affecting firms doing business in the
global arena. Economic, cultural, political, legal, and competitive environments
are covered, along with the global management of functional areas including
finance, marketing, operations, and human resources.

**Prereq.:** Completion of all level I MBA coursework, MGT 6921, MKTG 6942, FIN 6921.

**Cross listed with FIN 6920 and MKTG 6920 3 s.**

**BUS 6940 Data Analytics and Data Management 3 s.h.**
Course emphasis is on knowledge and skills required by accountants and
managers to collect, manage, 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: predictive analytics, enterprise
architecture, security, knowledge through data discovery, data visualization,
ethics data quality, advanced data modeling. It will include hands-on use
of available software found in industry practices, with an emphasis on
spreadsheets.

**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
so they are able to use financial statements to 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.

MBA 6911  Integrated Business Solutions  2 s.h.
Become a successful manager or executive, requires one to be adept at: identify/define a business problem, generating appropriate solutions, evaluating solutions, and selecting an appropriate solution, given their understanding of the problem and the dynamics of a business and the environment in which it operates. In this course you will learn concepts and techniques that will provide a strong foundation and developing these abilities. Program - MBA or General Business.
Prereq.: Graduate standing.

MBA 6931  Professional Communication  1-2 s.h.
Effective communication is a critical component for success in the workplace. Participants will learn to design effective messages, both written and oral, for a variety of business audiences and environments. Additionally, participants will be able to manage other issues relevant to business communication, such as reputation management, employee communication and crisis management.
Prereq.: Graduate standing.

MBA 6932  Professionalism & Career Management  1 s.h.
Participants will learn how to effectively present themselves in the workplace and position themselves for new opportunities - either through advancement or with a new organization. Participants will be able to analyze career choices through a focus on assessments and experiences, engage in more effective job search to find a career that reflects their values, skills and interests.
Prereq.: Graduate standing.

MBA 6933  Business Ethics and Social Responsibility  2 s.h.
Today, businesses must operate in increasingly complex environments, requiring their leaders to make decisions with considerations other than just ‘the bottom line.' Participants will be able to better understand their personal and social responsibilities as business managers. In addition, participants will be equipped to not only recognize ethical issues, but to react to them by applying ethical decision-making models.
Prereq.: Graduate standing.

MBA 6970  Global Business  3 s.h.
Economic, cultural, political and legal differences across countries create unique challenges in today’s global business landscape. To become more effective managers in this global arena, participants will examine how these issues impact the management of finance, marketing, operations and human resources.
Prereq.: Graduate standing.

MBA 6977  Comprehensive Business Analysis  1-2 s.h.
To demonstrate a mastery of core business concepts learned throughout the MBA, participants will utilize knowledge and capabilities gained throughout the program to analyze, synthesize and present recommendations in the areas of: managing, decision making, leadership, and strategic thinking.
Prereq.: MGT 6975 or concurrent.

MGT 5835  Systems Analysis and Design  3 s.h.
Information systems and system development life cycle (SDLC) sizing tools and techniques used to document an information system.
Prereq.: MGT 3761 AND 2.5 GPA.

MGT 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.: MGT 3715 or Junior standing and 6 s.h. of GER approved SI courses.

MGT 5865  Database Management Systems  3 s.h.
Design and management of organizational data resources. Database issues include design, definition, creation, documentation update, maintenance, revision, selection, acquisition, and use. The implementation of the hierarchical, network, and relational models with emphasis on business applications.
Prereq.: MGT 3761 and 2.5 GPA.

MGT 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.

MGT 6926  Business Analytics  3 s.h.
Application of computer-based, mathematical modeling techniques to support managerial decision making, with emphasis on problem formation, sensitivity analysis, and other aspects of model interpretation.
Prereq.: Graduate Standing.
MGT 6930 Managing and Leading in Organizations 3 s.h.
Participants will learn principle techniques and develop capabilities to allow them to become better managers. Key to this ability of being a strong manager and leader is an understanding of the interrelationship of organizational functions embodied through organization design, enhancing employee productivity, communication, authority-power relationships, group behavior, and leading organizational change.
Prereq.: Graduate standing.

MGT 6941 Managing Organizational Talent 3 s.h.
Prereq.: Graduate standing

MGT 6944 Managing Business Processes 3 s.h.
Participants will learn techniques and develop capabilities that will facilitate the management of business processes through the examination of product design and selection, plant layout, aggregated planning, scheduling and quality control.
Prereq.: MGT 6926.

MGT 6945 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 a thorough understanding of enterprise integration as well as practical experience configuring and using SAP/ERP the leading enterprise resource planning system.
Prereq.: FIN 6902.

MGT 6946 Supply Chain Management 3 s.h.
This course covers a number of supply-chain related topics including: Inventory Models (consumption-based planning), Advanced Purchasing exercises, MRP and Repetitive Manufacturing.
Prereq.: MGT 6944.

MGT 6947 Managing Information & Technology 3 s.h.
Information and technology are indispensable tools for creating business efficiencies, serving customers, and generating business opportunities. With these outcomes in focus, participants will develop capabilities that allow them to better manage the design, implementation, and utilization of information systems to create organizational value.
Prereq.: Graduate standing.

MGT 6948 Project Management 3 s.h.
Participants will develop core-capabilities of a project manager, including the ability to plan, schedule, control, allocate resources, and assess performance of organizational projects. By focusing on work breakdown structures, scheduling, PERT/CPM, controlling and managing costs, project termination, and risk management, participants will obtain a working-knowledge of fulfilling the role of project manager.
Prereq.: Graduate standing.

MGT 6954 International Management 3 s.h.
Planning, organizing, and control within the context of a multinational corporation, with emphasis upon problems of adaptation to different sociological, cultural, legal, political, and economic environmental characteristics.
Prereq.: MGT 6961, plus six semester hours of level II MBA coursework.

MGT 6958 Managing in Emerging Economies 3 s.h.
This course focuses on the macro and competitive environments in selected emerging markets, the unique institutional and regulatory factors influencing in these markets, and the strategic and operational approaches required to succeed in these markets.
Prereq.: Completion of level I MBA coursework and 6 hours of level II MBA coursework.

MGT 6960 Strategic Issues Facing Multinational Enterprises in the 21st Century 3 s.h.
This course focuses on strategic issues facing multinational enterprises to enable students to gain insight into a range of conceptual models and empirical methodologies in the field of global strategic management and to apply these concepts and models in the analysis of practical case situations.
Prereq.: MBA 6970.

MGT 6968 Special Topics in Management 1-3 s.h.
Topics may vary from semester to semester and will be announced along with prerequisites and hours. May be repeated.

MGT 6970 Entrepreneurship 3 s.h.
An in-depth analysis of the elements of entrepreneurship, the process of planning and starting a business, the cross-functional skills required to manage a successful start-up, and the special circumstances of small business management.
Prereq.: Six semester hours of level II MBA coursework.

MGT 6975 Strategic Management 3 s.h.
With an emphasis on problems of executive management, decision making, and administrative action, participants will develop strategic thinking capabilities through an examination of the design, implementation, and evaluation of business strategy and policy. Must be taken concurrently with MGT 6976. Minimum 3.0 GPA.
Prereq.: FIN 6923, MGT 6930, MGT 6944, MKTG 6975.

MGT 6976 Strategic Consulting Project 3 s.h.
An applied learning experience in which participants utilize knowledge and capabilities gained throughout the MBA program to engage in collaborative consultation with a business. The focus is on the development of strategic recommendations that will assist the client organization in addressing existing and emerging challenges.
Prereq.: Must be taken concurrently with MGT 6975.

MGT 6996 Research Problems 1-3 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 courses or permission of MBA director.

MKTG 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.

MKTG 6943 Consumer & Product Management 3 s.h.
An applied examination of marketing as a business process by which products are matched with markets and through which transfers of ownership are affected.
Prereq.: Graduate standing.

MKTG 6948 Global Marketing Communication 2 s.h.
The course explores how culture and globalization impact marketing and communication activities of companies operating in multiple markets or multinational companies entering or operating in countries outside their home market. Provide extensive understanding of the issues and challenges in marketing communication through a global perspective.
Prereq.: MKTG 3703 or MKTG 6975.

MKTG 6951 Export Strategy 3 s.h.
The student will learn how to manage and operate an 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 a with local firm.

MKTG 6968 Special Topics in Marketing 1-3 s.h.
Topics may vary from semester to semester and will be announced along with prerequisites and hours. Course may be repeated.
Admission Requirements

In addition to the minimum College of Graduate Studies admission requirements, students must also have previous courses in or the equivalent of:

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>CSIS 1590</td>
<td>Survey of Computer Science and Information Systems (or equivalent of information systems courses)</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 2610</td>
<td>Programming and Problem-Solving (or equivalent of computer programming)</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3700</td>
<td>Data Structures and Objects (or equivalent of computer programming)</td>
<td>4</td>
</tr>
<tr>
<td>CSIS 3722</td>
<td>Development of Databases (or equivalent of databases courses)</td>
<td>3</td>
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<tr>
<td>CSIS 3723</td>
<td>Networking Concepts and Administration (or equivalent of networking courses)</td>
<td>3</td>
</tr>
<tr>
<td>or CSIS 3782</td>
<td>Cisco Networking Academy 1</td>
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<tr>
<td>INFO 3704</td>
<td>Business Communication (or equivalent of technical communication skills courses)</td>
<td>3</td>
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</table>

Equivalent employment-related experience may be substituted for some of these requirements. The experience must be described in detail and reliably documented (in a letter of recommendation from an employer, for example).

Students are also required to submit a résumé, a written statement describing their past experience in computing/information systems (both employment and academic), and their reasons and goals for applying to the program. The Graduate Record Examination (general test) is also required and students must obtain an acceptable score.

The GRE requirement will be waived for applicants who meet the following criterion:

1) an undergraduate cumulative GPA of 3.5 or higher, OR
2. an undergraduate cumulative GPA of 3.0 or higher, but less than 3.5 and who have completed Calculus 1&2 earning a grade of B or higher.

Students not satisfying all admission requirements may be admitted with provisional status subject to the approval of the graduate program director and the graduate dean. Such students will generally be required to take specified undergraduate and/or foundation courses, which will not count toward the master’s degree.

Graduate Faculty

Abdurrahman Arslanyilmaz, Ph.D., Professor
Computer-based learning design; hazard detection in traffic simulation; computer-based and case-based learning

Alina Lazar, Ph.D., Professor
Applied machine learning; database mining; agent-based simulations, and parallel programming

John R. Sullins, Ph.D., Associate Professor
Artificial intelligence; game design; neural networks and expert systems

Feng Yu, Ph.D., Associate Professor
NoSQL databases; big data systems; cloud computing

Yong Zhang, Ph.D., Associate Professor
Computer vision; image processing; biometrics; object detection and recognition; medical imaging

Degree Requirements

A minimum of 34 approved semester hours of credit (at least half of which must be at the 6900 level) is required for the Master of Computing and Information Systems. The program offers two Options: Thesis and Projects

Thesis Option composed of a set of core courses, a set of electives, and a thesis, as detailed below.

Non-Thesis Option composed of a set of core courses, a set of electives, and a project, as detailed below.

The student’s course of study will be determined in conjunction with the student’s major advisor and, possibly, with an advisor from outside of the department, particularly if the student is interested in applying information systems to some other area. This course of study will be based on the student’s area of specialization, background interests, and career interests. It may also include graduate courses from other areas where appropriate. A cohesive individual curriculum program of approved elective courses will be developed in conjunction with the student’s major advisor after nine semester hours of core courses have been completed. Prior approval to carry more than 12 credit hours in any one semester, an approval must be obtained from the student’s major advisor and the Dean of Graduate Studies.
A minimum of 34 approved semester hours of credit (at least half of which must be at the 6900 level) is required for the Master of Computing and Information Systems.

**Thesis Option**

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>Core</td>
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<tr>
<td>At least half of the semester hours must be at the 6900 level</td>
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<tr>
<td>CSCI 6901</td>
<td>Principles of Computer Programming</td>
<td>3</td>
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<tr>
<td>CSCI 6920</td>
<td>Theory and Practice of Information Systems</td>
<td>3</td>
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<td>CSCI 6950</td>
<td>Advanced Database Design and Administration</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 6997</td>
<td>Seminar in Computer and Information Systems (take in the first semester if possible but no later than the second semester)</td>
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Select one of the following: 3

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<td>CSCI 6921</td>
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</tr>
<tr>
<td>CSCI 6940</td>
<td>Advanced Network Design and Administration</td>
<td></td>
</tr>
<tr>
<td>CSCI 6951</td>
<td>Data Warehousing and Data Mining</td>
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**Electives**

Select a minimum of 15 s.h. of electives consisting of approved graduate and/or swing courses. Up to 9 s.h. may be taken in departments other than Computer Science and Information Systems.

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<tbody>
<tr>
<td>CSCI 6999</td>
<td>Thesis</td>
<td>6</td>
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</table>

**Total Semester Hours** 34

**Non-Thesis Option**

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**Electives**

Select a minimum of 18 s.h. of electives consisting of approved graduate and/or swing courses. Up to 9 s.h. may be taken in departments other than Computer Science and Information Systems.

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<tbody>
<tr>
<td>CSCI 6990</td>
<td>Computer Science Project</td>
<td>3</td>
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</table>

**Capstone Project**

This project is meant to explore and apply some area of computing and information systems and is subject to the approval of the major advisor.

**Total Semester Hours** 34

**Learning Outcomes**

The Master of Computing and Information systems program provides preparation for students to

- design a large-scale information system to meet the goals of an organization, encompassing software, databases, networks, and people.
- analyze the design, implementation, and maintenance of databases within a large organization.
- compile knowledge in crucial areas of information systems, such as data mining, advanced network design, and project management.
- design components and evaluate decisions related to information systems that interact with the outside world, including networking, security, and client-server web design.
- design, and implement a significant component of a large-scale information system.

**Graduate Courses**

**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.:** CSCI 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.:** CSCI 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.:** CSCI 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.:** CSCI 3700 and CSIS 3740.

**CSCI 5820** Simulation 3 s.h.
Methods for modeling discrete event systems by algorithmic approaches using simulation languages.
**Prereq.:** CSCI 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.:** CSCI 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.:** CSCI 3700 and either CSCI 3723 or CSCI 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.:** CSCI 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, cryptovariable 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.

CSCI 6900 Computing Information System Workshop 1-3 s.h.
Intensive study and activity in a topic related to computing and information systems. May be repeated. Grading is S/U.
Prereq.: permission of graduate coordinator.

CSCI 6901 Principles of Computer Programming 3 s.h.
Significant features of several computer programming languages to fit the needs of graduate students with no previous computer science experience. Programming techniques and problem analysis. Students will do programming projects appropriate for their needs.
Prereq.: CSCI 6901 or CSIS 3700 or FSCI 3716/L or permission of instructor.

CSCI 6905 Information Structures 3 s.h.
Basic concepts of information: modeling structures, machine level implementation, storage management, programming, language implementation, run-time structures, sorting, and searching.
Prereq.: CSCI 3710 and CSIS 3740, or permission of chair.

CSCI 6910 Computer Software Systems 3 s.h.
Classes of software systems, system structures, systems operations. Resource management routines. Software design.
Prereq.: CSCI 6905 or equivalent.

CSCI 6915 Computer Organization Architecture 3 s.h.
Organization and architectural design of the subsystems and major functional units of modern digital computers and their interconnections.
Prereq.: CSCI 6905 or equivalent.

CSCI 6920 Theory and Practice of Information Systems 3 s.h.
A study of the relationship of information systems to individuals, organizations, and society. A detailed study of the principles, methodologies, and issues associated with designing, implementing, and administering information systems as a resource in a networked, data-driven organization.
Prereq.: CSIS 3722 and CSIS 3723.

CSCI 6921 Strategic Project and Change Planning 3 s.h.
Information technology control, including organizational effects through methods, control techniques, and project tools. Cases provide domestic and international experience via initialization, planning, execution, tracking, and risk assessment. Time, reporting, resources, project relevance, organizational impact, and operational consistency are addressed through anticipatory, reactive, and crisis approaches.
Prereq.: CSCI 6920.

CSCI 6930 Formal Languages and Syntactic Analysis 3 s.h.
Study of formal languages, especially context-free languages, and their applications to parsing and syntactic analysis.
Prereq.: CSCI 3710 or CSCI 6905.

CSCI 6940 Advanced Network Design and Administration 3 s.h.
Advanced network design, implementation, and administration. Topics include infrastructure and architecture, VLSM, logical and physical designs, security issues, voice over IP, client/server networks, and VLANs.
Prereq.: CSIS 3723 or CSIS 3783.

CSCI 6950 Advanced Database Design and Administration 3 s.h.
Advanced concepts in database design, development, and administration. Database query languages, transactions, and data warehousing. Relational calculus. System analysis; concurrency, backup and recovery, and security issues; advanced models, including distributed, object-oriented, and online databases.
Prereq.: CSIS 3722 or equivalent.

CSCI 6951 Data Warehousing and Data Mining 3 s.h.
Basic methodology for planning, designing, building, using, and managing a data warehouse. Legacy systems, operational data stores, and data marts. Data mining techniques for visualization and deriving information from a data warehouse for strategic decision making.
Prereq.: CSIS 3722.

CSCI 6961 Client-Side Web Development and Programming 3 s.h.
Design and development of interactive, multimedia webpages. Effective uses of forms, graphics, and animation. Client-side programming tools, such as dynamic HTML, document object model, and JavaScript for graphics and form validation. Storyboarding techniques and user interface design principles.
Prereq.: CSIS 2617 or CSCI 6901.

CSCI 6962 Server-Side Web Development and Programming 3 s.h.
Configuration of web server software and the use of server-side programming. Server-side scripting in languages such as PHP and JavaServer Pages. Database access and drivers. Security issues, including access control and secured transmissions.
Prereq.: CSIS 3722 and either CSIS 3700 or CSCI 6901.

CSCI 6970 Biometrics 3 s.h.
Biometrics is an emerging and fast growing field that has found applications in a wide range of areas. This course will introduce major biometric techniques (face, fingerprint, voice and iris), focusing on the methods that have roots in computer vision, image processing, pattern recognition and machine learning. The course is designed to be project oriented. Student can choose a topic and develop it into a full project. Students who are interested in writing C++ codes and doing tests with OpenCV libraries are particularly encouraged to do so.
Prereq.: CSCI 6901 or CSIS 3700 or FSCI 3716/L or permission of instructor.
CSCI 6971  Cloud Computing and Big Data  3 s.h.
The objective of this course is to provide an introduction of cloud computing and big data, including the background knowledge and embracing technologies. This course addresses the latest advances in hardware and software, cluster architecture, programming paradigms that emphasize in system performance, scalability, security, and energy efficiency. We also include hands-on experiences for students to practice on building, managing, and programming on contemporary cloud and big data systems. Research directions in cloud and big data will be introduced for graduate level study.  
Prereq.: CSIS 3700 or CSCI 6901.

CSCI 6990  Computer Science Project  1-3 s.h.
Report and discussion of individual topics or research projects in computer science.  
Prereq.: Nine semester hours of computer science courses numbered above 5000.

CSCI 6993  Computing and Information Systems Graduate Internship  1-3 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 graduate internship supervisor.  
Prereq.: CSCI 6920 and permission of graduate internship supervisor.

CSCI 6995  Special Topics in Computer Science  1-4 s.h.
Special topics in computer science selected by the staff.  
Prereq.: Permission of chair.

CSCI 6996  Independent Study  1-4 s.h.
Study under the supervision of a faculty member.  
Prereq.: Permission of chair.

CSCI 6997  Seminar in Computer and Information Systems  1 s.h.
Overview of research methods and presentation techniques (written and oral) for advanced work in computer science and information systems. Will include presentations of current student/faculty research. Students will be required to deliver at least one conference-style presentation of their own in an area related to their research.

CSCI 6999  Thesis  3-6 s.h.
A student may register for six semester hours in one semester or for three semester hours in each of two semesters.

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; VLSM 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.

CSIS 6975  Ethics, Legal Issues, Privacy and Information Security  3 s.h.
A comprehensive study of the principles and practices of computer systems security, information security management, privacy, ethics, legal issues, and compliance. This course covers the foundations for the policy, law, regulatory, and ethical accountability frameworks that information security managers work within.

Master of Education in Intervention Services

Introduction

Students who successfully complete 45 credit hours of coursework are awarded the Master of Education (M.Ed.) degree in Intervention Services. An additional 54 credit hours are required for the awarding of the Educational Specialist (Ed.S.) degree in School Psychology. Candidates must also pass the PRAXIS II examination in school psychology for licensure in the State of Ohio and for certification by the National Association of School Psychologists (NASP). (Please note the following are required for admission to the Educational Specialist degree: Successful completion of the YSU M.Ed. In Intervention Services, demonstration of successful skills as evidenced by grades and disposition ratings throughout the program, and a successful Ed.S. admissions interview.)

The program provides a curriculum that is comprehensive, integrated, and sequential. It follows the school psychology standards set forth by the State of Ohio, NASP, and the Council for the Accreditation of Education Preparation (CAEP). Courses reflect current advances in the field of school psychology and education. In addition, the program has a unique emphasis in low incidence disabilities. The program is committed to implementing and integrating the most current technology.

The school psychology program is structured so that course content is accompanied by appropriate field experiences. Practicum experiences are designed to provide students with opportunities to practice skills that are required in professional practice while under direct supervision. Practicum experiences occur in conjunction with specific courses and are individualized in terms of setting and assignment to a field supervisor.

Full-time study in school psychology (M.Ed. and Ed.S.) generally constitutes a three-year sequence. To develop the needed specific competencies and to meet the training goals of the YSU school psychology program, candidates during the first year of study complete coursework in counseling, educational, and psychological foundations at the master's level. The first year includes 100 practicum hours and provides candidates with experiences related to a variety of low and high incidence disabilities. Upon successful completion of year one requirements, candidates will graduate with a Master of Education in Intervention Services.
Welcome
Our program is designed to prepare graduates with the necessary knowledge, skills, and dispositions to serve our community. Youngstown State University offers a Master of Education in Intervention Services as the initial degree required for admission to the Educational Specialist in School Psychology program. The School Psychology program at YSU enrolled its first class of candidates in 2012 and graduated its first class of School Psychologists in August 2015. This is the first new degree program in Ohio dedicated to the preparation of school psychologist in over four decades. Master’s students will find a unique educational experience that prepares them for study in School Psychology. I encourage you to review the website and to contact the program director below.

Dr. Jeffrey Coldren
Chair / Professor
Department of Counseling, School Psychology, Educational Leadership and Psychology
jtcoldren@ysu.edu

Program Director
For specific questions about the Master of Education in Intervention Services and the School Psychology program, please contact the program director:

Richard W. VanVoorhis, D.Ed., NCSP Associate Professor
3212 Beeghly College of Education
(330) 941-3266
rwvanvoorhis@ysu.edu

Accreditation
The School Psychology program within the Department of Counseling, School Psychology, & Educational Leadership, achieved full national recognition as a NASP (National Association of School Psychologists) approved program through Fall 2024 - https://www.nasponline.org/

Admission Requirements
A set of specific criteria must be met before the applicant can be officially accepted as a candidate for a YSU graduate degree in school psychology. Undergraduate/graduate coursework, grade point average, relevant work experience, letters of recommendation and personal maturity are considerations for entrance into the program. To begin the application process, prospective candidates should contact Dr. Richard Van Voorhis, Graduate Program Director.

The Youngstown State University school psychology program is a cohort-based program and will accept students on a full-time time basis. The first year of the program commences during the summer. The requirements for applying to the YSU School Psychology program are:

• A baccalaureate degree from a regionally accredited university or college
• Minimum undergraduate cumulative GPA of at least 3.0 or better on a 4.0 scale
• Graduate Record Examination (GRE) results (Verbal and Quantitative, Analytical Writing)
• Three letters of recommendation
• Official transcripts from all previously attended institutions
• A “Position Paper” describing
  • Motivation and reasons for selecting the field of school psychology
  • Aspirations following the receipt of the graduate degree in school psychology

• Personal qualities which relate to success as a graduate student and school psychologist.
• Minimum of 9 semester hours of undergraduate or graduate work in school psychology related coursework (psychology, education, special education, social work, counseling, or other as determined by the admission committee) with a grade of “B” or better
• Completion of a Good Moral Character statement which reflects no criminal convictions which may impact your ability to work in educational settings
• An interview is the last step in the application process. Completed applications will be reviewed by the selection/admission committee to select individuals for interview. The process is competitive and meeting eligibility criteria does not assure admission into the program.
• Application Deadline: February 1st

Graduate Faculty
Carrie R. Jackson, D.Ed., Assistant Professor
Applied behavior analysis; autism spectrum disorders; neuropsychology; transition planning/vocational assessment

Richard W. VanVoorhis, D.Ed., Associate Professor
Role and function of school psychologists; career development and counseling topics; special education service delivery; low incidence disabilities; assessment and identification issues

Successful completion of the following 45 credit semester hours and successful completion of comprehensive examination (capstone experience)

Required courses for the M.Ed. in Intervention Services are as follows:

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>SPSY 6901</td>
<td>System-Wide Consultation/Collaboration in the Schools</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 6909</td>
<td>Assessment and Intervention for Students with Low Incidence Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 6912</td>
<td>Multilevel Tier Interventions Across General Education and Special Education Programming</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6962</td>
<td>Counseling Theory</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6973 &amp; 6973L</td>
<td>Group Counseling Theory and Practice and Guided Group Counseling</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 6904</td>
<td>Crisis Counseling</td>
<td>3</td>
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<tr>
<td>PSYC 6905</td>
<td>Human Growth and Development</td>
<td>3</td>
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<tr>
<td>PSYC 6955</td>
<td>Psychopathology</td>
<td>3</td>
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<tr>
<td>SPSY 6902</td>
<td>School Organization, Classroom Analysis, Cross- Categorical Settings</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 6905</td>
<td>Cultural/Ethnic Issues Relating to Youth and Families</td>
<td>3</td>
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<tr>
<td>FOUN 6904</td>
<td>Introduction to Educational Research</td>
<td>3</td>
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<tr>
<td>FOUN 6914</td>
<td>Statistical Methods in Education</td>
<td>3</td>
</tr>
<tr>
<td>SPSY 6906</td>
<td>Role and Function of a School Psychologist</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6900</td>
<td>Counseling Methods and Practice</td>
<td>3</td>
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</table>

Capstone Experience

| SPSY 6907 | Psycho-Educational Assessment Practices in the Schools | 3 |

Total Semester Hours 45

Learning Outcomes
1. Candidates will be well prepared to serve all children/students and their families including those diagnosed with high and low incidence disabilities.

For more information visit our Department website (http://catalog.ysu.edu/undergraduate/colleges-programs/college-education/department-counseling-special-education-school-psychology/).
2. Candidates will reflect professional practices that demonstrate respect for human diversity and promote effective services, advocacy, and social justice for all children and families.

3. Candidates will demonstrate the educational foundations of school psychology including the organization and operation of general, special education plus instructional and remedial techniques.

4. Candidates will obtain theoretical and practical knowledge, skills and experiences related to developing appropriate mental health strategies with children, families, and groups.

5. Candidates will demonstrate an understanding of basic statistical and research methodologies as applied to research in the schools.

6. Candidates will understand the historical, current, legal and ethical issues, alternative models of delivery, emergent technologies, and knowledge of the school psychologist’s role and function.

**Graduate Courses**

**SPSY 5965**  School of Psychology Workshop - Special Topics 1-5 s.h.
Selected topics related to intervention and current interest in the school of psychology field of study. Grading is S/U.

**SPSY 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.

**SPSY 6902**  School Organization, Classroom Analysis, Cross-Categorical Settings 3 s.h.
Provides students in the school psychology program with the opportunity to observe and participate in educational regular education (K-12) and special education settings (SLD, CD, ED, MH, Autistic clinics, for B-21 years of age) in order to understand the organization of educational institutions they will ultimately serve as well as student population characteristics to understand the organization of educational institutions they will ultimately serve.

**SPSY 6904**  Crisis Counseling 3 s.h.
An overview of the professional concerns and issues school psychologists face working in public school systems. Orientation and preparation for the supervised internship experience will be discussed; future responsibilities as a professional and staff consultant. Legal and ethical issues pertaining to the role of a school psychologist will be reviewed.

**SPSY 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.

**SPSY 6906**  Role and Function of a School Psychologist 3 s.h.
An overview of the professional concerns and issues school psychologists face working in public school systems. Orientation for a supervised internship experience will be discussed; future responsibilities as a professional and staff consultant. Historical, legal and ethical issues pertaining to the role of a school psychologist will be reviewed.

**SPSY 6907**  Psycho-Educational Assessment Practices in the Schools 3 s.h.
This course is designed to provide an overview of the relevant concepts, principles and methods underlying the construction and interpretation of psychological and educational tests. Through lectures, discussion, and individual and group activities, candidates will learn about the basic concepts, competencies, issues, and tools used in psychological testing and measurement and their practical applications. In this course, candidates will gain knowledge of how psychological tests are built, what they can and cannot do, the conditions under which they should and should not be used, and how to evaluate their adequacy.

**Prereq.:** School Psychology Candidacy.

**SPSY 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.

**SPSY 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).

**SPSY 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.

**SPSY 7500**  Dynamic Assessment 1 3 s.h.
This course is designed for the school psychology student and includes the administration and interpretation of intelligence tests. The goal of this course is to provide students with a series of experiences which will lead to student mastery in the administration, scoring, and interpretation of various cognitive instruments and one achievement test.

**Concurrent:** SPSY 7501 and SPSY 7502.

**SPSY 7501**  Dynamic Assessment Practicum in School Psychology 1 3 s.h.
Supervised experience in the administration and scoring of cognitive assessment protocols and demonstration of behavioral observation recording.

**Concurrent:** SPSY 7500 and SPSY 7502.

**SPSY 7502**  Cognitive Observation Practicum 2 s.h.
Supervised experience in the administration of various psychological instruments.

**Prereq.:** SPSY 7500 and SPSY 7501 concurrently.

**SPSY 7503**  Dynamic Assessment 2 3 s.h.
This course is designed to provide school psychology candidates with a theoretical foundation and the attainment of assessment skills in the areas of achievement, perceptual-motor, receptive, expressive, written language skills, behavioral, self-concept, emotional, developmental history and adaptive behavior assessment.

**Prereq.:** Candidates must have obtained a “B” or better and reached competence in SPSY 7500, SPSY 7501, and SPSY 7502.

**Concurrent:** SPSY 7504 and SPSY 7505.
SPSY 7504 Dynamic Assessment Child Study Practicum 2  3 s.h.
Candidates are provided supervised practicum experience utilizing a systematic, ecological approach to child study.
Prereq.: Candidates must have obtained a "B" or better and reached competence in SPSY 7500, SPSY 7501, and SPSY 7502.
Concurrent: SPSY 7503 and SPSY 7505.

SPSY 7505 Dynamic Assessment Advanced Child Study Practicum 3  3 s.h.
Candidates are provided with advanced supervised practicum experiences in school systems in the area of child study.
Prereq.: Candidates must have obtained a "B" or better and reached competence in SPSY 7500, SPSY 7501, and SPSY 7502.
Concurrent: SPSY 7503 and SPSY 7504.

SPSY 7506 Consultation Approaches to Treatment in Schools  3 s.h.
This course presents assessment procedures for ecological contexts and client needs within school contexts.
Concurrent: SPSY 7507.

SPSY 7507 Classroom Assessment and Decision Making  3 s.h.
The purpose of this course is to analyze and assess problems related to classroom learning environments, to plan programs to enhance environments, and to implement as well as evaluate plans. The aim of this course is to prepare school psychology students to function effectively within public school classrooms by applying various consultation models.
Concurrent: SPSY 7506.

SPSY 7508 Neuropsychology, Low Incidence and Learning Behavior  3 s.h.
This course is designed to provide the basics of neuroanatomy, specifically in terms of brain organization and neurological development.
Prereq.: SPSY 7500, SPSY 7501, and SPSY 7502.

SPSY 7509 Family Systems Within an Educational Context  3 s.h.
The focus of the didactic and experiential course will be on identifying patterns of children's symptoms, repositioning of the therapist within the educational system context and learning of various therapeutic techniques to use with families of children with disabilities or other mental health issues.

SPSY 7510 Professional Development Seminar in School Psychology  1 s.h.
This course is designed to prepare and ready school psychology candidates for their internship assignment.

SPSY 7511 School Psychology Internship Studies  3 s.h.
Supervised readings and class discussions in preparation for a 1400-clock-hour internship in school psychology.

SPSY 7512 Internship/Supervised Experience 1  6 s.h.
Designed for those candidates who have been assigned a 1400-clock-hour internship in the state of Ohio under field and university supervision. 6 s.h.

SPSY 7513 Internship/Supervised Experience 2  6 s.h.
Designed for those candidates who have been assigned a 1400-clock-hour internship in the state of Ohio under field and university supervision. 6 s.h.

SPSY 7514 Internship/Supervised Experience 3  3 s.h.
Designed for those candidates who have been assigned a 1400-clock-hour internship in the state of Ohio under field and university supervision. 6 s.h.

SPSY 7515 Advanced Seminar in School Psychology 1  3 s.h.
First of two-semester seminars (special topics related to school psychology internship, child study, serving low incidence populations, consultation, RTI and other topics related to the internship experience).
Prereq.: concurrent with SPSY 7512.

SPSY 7516 Advanced Seminar in School Psychology 2  3 s.h.
Second of two-semester seminars (special topics related to school psychology internship, child study, serving low incidence populations, consultation, RTI and other topics related to the internship experience).
Prereq.: concurrent with SPSY 7513.

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**Master of Fine Arts in Creative Writing**

As of fall 2021, admission to the graduate program in Creative Writing has been suspended.

Applications to the program are not being accepted at this time.

**Campus Coordinator**
Christopher Barzak
237 DeBartolo Hall
(330) 941-1655
cmbarzak@ysu.edu

**NEOMFA Director**
Catherine Wing
(330) 672-1743
cwing1@kent.edu

**Program Description**
The Master of Fine Arts program at Youngstown State University is part of the Northeast Ohio Universities Master of Fine Arts (NEOMFA) in Creative Writing. The NEOMFA is a multidisciplinary, interdepartmental, and interinstitutional program that provides opportunities for students to pursue the terminal degree in creative writing. The NEOMFA draws its faculty from departments at Youngstown State University, Cleveland State University, Kent State University, and The University of Akron.

This program offers workshops in poetry writing, fiction writing, creative nonfiction writing, and playwriting, as well as courses in literature, literary craft and theory, and professional writing and editing. The M.F.A. prepares graduates to pursue opportunities in arts management; in many areas of communication, publicity, and marketing; and in teaching creative writing, literature, and expository writing. Graduates of the program are ready to contribute to the literary life of the nation and the cultural life of the community. The program requires 48 semester hours of coursework.

**Advising**
All students should have their schedules approved by a graduate faculty advisor every semester. After initial enrollment in the program, the student and his or her advisor will establish a coursework plan including alternate course selections. An advisor may be chosen from the faculty of any consortium school.

**Writer in the Community Certificate**
The certificate option gives writers a background in community engagement that would multiply the availability of such avenues. The Certificate allows students who wish to pursue a more "practical" option while they are focusing on their creative writing. In a climate where the engagement between academia and community is more and more highly valued, the NEOMFA believes this is an ideal time to introduce this Certificate option into the program. The NEOMFA is already a unique program in being a consortium; the Certificate would only add to its distinctive character and make it more attractive to potential students.

**Admission Requirements**
In addition to the minimum College of Graduate Studies admissions requirements, applicants must submit three letters of recommendation and a substantive portfolio of creative work that includes either 15 to 20 pages of poetry or 30 pages of fiction, creative nonfiction, or playwriting. All portfolios must include at least one finished work. All items in the portfolio should be double-spaced. The letters of recommendation should come from individuals familiar with the applicant's academic or professional background. The letters...
should include an assessment of the applicant’s current work quality and ability to successfully complete graduate training. Application to the M.F.A. program authorizes staff members at participating institutions to have access to all student academic records and application materials.

The NEOMFA program accepts students for fall admission only.

Admission to the Creative Writing program as part of NEOMFA (Northeast Ohio Universities Master of Fine Arts) involves applying and submitting items to both YSU and NEOMFA. The materials needed and where they are to be sent are as follows:

1. Official College Transcripts - these should be sent to the Graduate Office of YSU.
2. Three Letters of Recommendation - Each letter needs to be sent as an attachment to both YSU and NEOMFA. They can be sent electronically via email to gradcollege@ysu.edu and neomfa.applicants@gmail.com.
3. Statement of Goals needs to be sent as an attachment to NEOMFA at neomfa.applicants@gmail.com.
4. Creative Portfolio - This needs to be sent to NEOMFA at neomfa.applicants@gmail.com.

Content details for the Statement of Goals and Creative Portfolio and how they are submitted can be found on the NEOMFA website at http://neomfa.org/prospective-students.

Graduate Faculty

Christopher Barzak, M.F.A., Professor
Fiction writing; fiction; contemporary British and American literature

Philip Sean Brady, Ph.D., Professor
Modern Irish literature; creative writing; modern world literature

All M.F.A. students must complete 48 semester hours in graduate-level courses. There are six areas of coursework in the M.F.A.:

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>Writing Workshops</td>
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<td>15</td>
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<tr>
<td>Craft and Theory courses</td>
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<td>9</td>
</tr>
<tr>
<td>Literatures courses</td>
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<td>6</td>
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<tr>
<td>Internship</td>
<td></td>
<td>3</td>
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<tr>
<td>Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Thesis</td>
<td></td>
<td>6</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<td><strong>48</strong></td>
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</table>

The thesis must be submitted according to the general requirements established by the College of Graduate Studies. The student is required to defend the thesis in an oral presentation before a committee of graduate faculty from a minimum of two consortium schools.

Writing in the Community Certificate

Course requirement for obtaining the certificate would be 4 classes, 12 credit hours, described below:

1. Teaching Creative Writing in the Community.
   This course will prepare students to apply their knowledge of creative writing and participate in a community-based teaching residency.

2. Writing in the Community Internship.
   For the practicum experience students will be placed in the community to teach creative writing for at least one contact hour per week for ten to fifteen weeks in a setting agreed upon by the students and the advisor.

3. Writing in the Community Paper.
   This is the only new course required by the Certificate (see attached Request for Graduate Curriculum Action). The culminating experience of the Writer in the Community Certificate is the Certificate Paper. The paper is to be a high quality, publishable paper of 20 to 25 pages and draw on practicum experience, research, and developed pedagogy of teaching writing in the community. Regular consultation with the advisor is required.

4. Professional Writing Elective.
   Students select a professional writing course, to be approved by an advisor, to further expand the connection between creative writing and organizational writing. At YSU, such courses would include the following: ENGL 6943, 6949,6953

Learning Outcomes

Students will create a high quality publishable work of poetry, fiction, creative non-fiction, play writing, and literary translation

Students will be able to critique literary works in a workshop environment

Students will have knowledge of a wide range of theories and practices of creative writing and the creative process

Students will have hands-on experiences in real-world writing and writing-related situations such as art agencies, public schools, and community centers

ENGL 6900 Methods of Literary Research 3 s.h.
Basic concepts and methods of literary research and analysis.

ENGL 6901 Methods of Composition Research 3 s.h.
Theories and methods of composition research; emphasis on strategies for conducting, analyzing, and writing about classroom and workplace studies.

ENGL 6902 Literary Thought 3 s.h.
May focus on particular theoretical approaches or provide an overview of literary criticism. May be repeated once with a different topic.

ENGL 6906 Teaching of Literature 3 s.h.
Problems, issues, practices, and research that affect the teaching of literature at various grade levels and in college courses.

ENGL 6907 Teaching of Writing 3 s.h.
Problems, issues, practices, and research that affect the teaching of writing at various grade levels and in college courses.

ENGL 6911 The Medieval World 3 s.h.
Study of selected literary works reflecting medieval thought and culture. May be repeated once with a different topic.

ENGL 6912 Sixteenth- and 17th-Century British Studies 3 s.h.
Nondramatic literature of the British Renaissance. May be repeated once with a different topic.

ENGL 6913 Shakespeare and Renaissance Drama 3 s.h.
Varying emphases on the dramatic works of Shakespeare and/or his contemporaries. May be repeated once with a different topic.

ENGL 6914 Restoration and 18th-Century British Studies 3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

ENGL 6915 Early American Studies 3 s.h.
Prose, poetry, and/or drama from the colonial period up to the early 19th century examined in their historical and cultural contexts. May be repeated once with a different topic.

ENGL 6916 Nineteenth-Century British Studies 3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

ENGL 6917 Nineteenth-Century American Studies 3 s.h.
Examines 19th-century American literature and culture through particular themes, genres, styles, periods, and/or figures. May be repeated once with a different topic.

S.H.
ENGL 6918  Studies in Children's Literature  3 s.h.
Contemporary children's literature. Emphasis may be on development, trends, critical standards, cultural context, classroom selection and use. May be repeated once with a different topic.

ENGL 6919  Studies in Young Adult Literature  3 s.h.
Contemporary young adult literature. Emphasis may be on development, trends, critical standards, cultural context, classroom selection and use. May be repeated once with a different topic.

ENGL 6920  Twentieth-Century British Studies  3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

ENGL 6922  Twentieth-Century American  3 s.h.
Studies. Examines works in relation to the history and social and cultural developments of the period. Nonliterary texts may be included, such as film, visual arts, and music. May be repeated once with a different topic.

ENGL 6923  Working Class Literature  3 s.h.
A study of working-class literature, culture, and artistic production, with emphasis on the literary history, the material conditions, and the intersection of race, ethnicity, gender, and sexual orientation in the works of literature by and about the working class.

ENGL 6927  Historical Survey of Literature for Young People  3 s.h.
Survey of historical developments from the 18th through mid-20th centuries in British and American literature for young people.

ENGL 6935  Studies in Romanticism  3 s.h.
Prose, poetry, and/or drama of the period studied in historical and cultural context and from various critical perspectives. May be repeated once with a different topic.

ENGL 6943  Technical Communication  3 s.h.
In-depth discussion of audience, format, document design, and corporate structure. Focus on refining skills and providing theoretical support for practical applications.

ENGL 6944  Document Design and Production  3 s.h.
Application of computer software and hardware to design and produce professional/technical documents.

ENGL 6945  Theory of Professional and Technical Communication  3 s.h.
Examines theory and research in professional and technical communication with emphasis on the application of theoretical concepts and empirical findings to practical problems in the field. Introduces students to theories and research methods through reading in current literature and through class research projects.

ENGL 6946  Historical Editing  3 s.h.
Project-based approach to theoretical and practical aspects of editing historical and literary documents for both print and digital contexts. Topics include document selection, transcription, verification, and annotation, as well as the implications for teaching and learning using traditional print and electronic archives and texts.
Cross-listed: HIST 6946.

ENGL 6947  Proposal Writing  3 s.h.
Graduate level introduction to the structural, rhetorical, and linguistic aspects of professional proposals, with a focus on grant proposals. Students examine the role of proposals in serving the needs and interests of organizations and individuals. Requirements include writing one grant proposal for a client and one other type of proposal (e.g., a research project proposal or book prospectus).

ENGL 6948  Healthcare Communication  3 s.h.
Graduate level introduction to how healthcare information is conveyed by healthcare researchers, providers, and writers, to experts and non-experts. Students examine how people find and use medical information in making healthcare decisions. Students consider issues of health literacy, research methods, ethics, public and private clinical communication, patient education, and visual design. Requirements include writing a report on a medical talk, a healthcare-related press release, and a client-based healthcare communication project.

ENGL 6949  Professional and Technical Editing  3 s.h.
A study of the skills needed to make appropriate changes in the content, grammar, mechanics, style, format, and organization of manuscripts for scholarly, trade, journalistic, and other professional publications. The course deals with stages in the publishing process, hard-copy versus online editing, mechanical and substantive editing, and the use of house and press styles.

ENGL 6950  Sociolinguistics  3 s.h.
An investigation of the relationship between language and society. Includes discussion of dialects and standard languages, language planning, linguistic identity, multi- and bilingualism, class, gender, ethnicity, and social interaction.

ENGL 6951  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.

ENGL 6952  Linguistics of Literacy  3 s.h.
An investigation of the linguistic, social, and cultural dimensions of literacy. The course covers theoretical frameworks of language and literacy, the relationship between speech and writing, cultural notions of literacy, and the acquisition of literacy in first and additional languages.

ENGL 6953  Publications Issues and Management  3 s.h.
Exploration of the issues involved in managing and producing professional publications, including publications in students' own fields. Focus on organizational, editorial, and authoritative voice; editorial policies; audience analysis; and the processes by which publications are conceived, designed, and produced.

ENGL 6955  Advanced Linguistics  3 s.h.
In-depth study of selected issues in contemporary linguistic theory.

ENGL 6956  TESOL Methods  3 s.h.
Introduction to teaching English as a second language (ESL), including reading, writing, listening, and speaking. Focus will be on using communicative methods with nonnative speakers.

ENGL 6957  TESOL Practicum  3 s.h.
Supervised teaching in an English as a second language (ESL) program. Additionally, weekly seminar attendance is required.

ENGL 6958  English Grammar  3 s.h.
Descriptions and analysis of English grammar structure.

ENGL 6960  Studies in Linguistics  3 s.h.
Examines a specific topic such as stylistics, semantics, sociolinguistics, second language acquisition, TESOL, or computational linguistics. May be repeated twice with a different topic.

ENGL 6963  Perspectives in Multicultural Studies  3 s.h.
An advanced study of primary and secondary texts from the field of multicultural literature and multicultural education. The course will emphasize the formation of social identities, the intersections of race, class, and gender, relationships among dominant and nondominant subjects in U.S. and other global cultures. The course will pay special attention to the theory and application of multiculturalist paradigms to education, professional work, and graduate study. May be repeated once with a different topic.

ENGL 6965  Studies in Film  3 s.h.
Analysis of motion pictures and their creators; topics may include classic and contemporary styles, genres, and methods of production, as well as film theory and criticism. May be repeated once with a different topic.
ENGL 6966  Writing of Poetry  3 s.h.
Discussion and application of approaches, techniques, and forms involved in the writing of poetry. May be repeated once with a different topic.

ENGL 6967  Writing of Prose  3 s.h.
Discussion and application of approaches, techniques, and forms involved in the writing of fiction and/or nonfiction. May be repeated once with a different topic.

ENGL 6968  Studies in Literary Form  3 s.h.
Examines forms such as poetry, the novel, the short story, essay, biography, autobiography, or travel literature. Emphasis may be on definition, development, cultural context, figures, or themes. May be repeated once with a different topic.

ENGL 6969  Writing the Youth Novel  3 s.h.
Discussion and application of approaches, techniques, and forms involved in the writing of novels.

ENGL 6974  English Education Workshop  1-3 s.h.
Intensive study and activity in a topic related to teaching English and the language arts. Does not count toward degree credit. Grading is S/U. May be repeated.

ENGL 6975  English Education Seminar  1-3 s.h.
Approaches to teaching English and the language arts. May be repeated once with a different topic.

ENGL 6976  Studies in English Education  3 s.h.
Theories, issues, and/or criticism in the teaching of English. May be repeated once with a different topic.

ENGL 6989  Teaching Practicum  1-3 s.h.
Techniques and strategies for teaching college composition, including course design and classroom practice. Required of and limited to graduate assistants who are teaching in the English Department. First-year graduate assistants must register for three semester hours of Teaching Practicum in two successive semesters for a total of six semester hours. Does not count toward degree credit. Grading is S/U.

ENGL 6990  Special Topics  3 s.h.
May be repeated once.

ENGL 6991  Special Topics MFA  3 s.h.
Special topics in literature and creative writing for students in the Master of Fine Arts (MFA) program in creative writing. May be repeated once.
**Prereq.:** Acceptance in the MFA program.

ENGL 6992  Professional Communication  3 s.h.
Focus on a selected topic in technical writing or professional communication (e.g., proposal writing, science writing, computer documentation, nonfiction prose). May be repeated once with a different topic.

ENGL 6993  Discourse Theory  3 s.h.
Examination and discussion of contemporary theories of discourse analysis, with some attention to the history and development of rhetorical theory.

ENGL 6997  English Internship  1-3 s.h.
Supervised work-and-learning experience in English under the direction of an English Department faculty member and an employee of a participating firm. Ten to 20 hours a week of student time are expected. Enrollment is contingent upon the availability of internships. Students are selected on the basis of personal qualifications, including GPA, courses taken, recommendations, and an interview. Either ENGL 6997 or ENGL 6998 may count toward the degree, not both.

ENGL 6998  Professional Writing Internship  1-3 s.h.
Supervised work-and-learning experience in professional communication under the direction of a University faculty member and an employee of a participating firm. Ten to 20 hours a week of student time are expected. Enrollment is contingent upon the availability of internships. Students are selected on the basis of personal qualifications, including GPA, courses taken, recommendations, and an interview. Either ENGL 6997 or ENGL 6998 may count toward the degree—not both.

ENGL 6999  Thesis  1-3 s.h.
Thesis.
**Prereq.:** Thesis proposal accepted by departmental committee.

**Master of Fine Arts in Interdisciplinary Visual Arts**

As of January 1, 2021, admission to the graduate program in Interdisciplinary Visual Arts has been suspended.

Applications to the program are not being accepted at this time.

**Admission Requirements**

As the terminal degree in studio art, the MFA Program at YSU will provide an opportunity for advanced conceptual and technical development for qualified students wishing to pursue a professional career in contemporary studio art research and practice. Admission to the program will be highly competitive and selective. Successful applicants will have a superior academic background and a strong commitment to interdisciplinary practice. MFA students are expected to have a thorough understanding of the principles of form, proficiency in various mediums and technical skills as well as a fluency in language and discourse in the historic and contemporary contexts. Applicants must follow standard procedures and normal requirements for admission into YSU College of Graduate Studies. In addition to the Graduate Admission requirements, applicants are required to have the following:

- An undergraduate degree from a regionally accredited institution (i.e., BFA, BA or equivalent experience). The undergraduate degree need not be in Studio Art but the applicant must demonstrate the competence to undertake the challenges of MFA Studies in Visual Art.
- A minimum of 48 credit hours of undergraduate work in studio courses and 12 credit hours in art history courses (the normal course of study for a BFA or BA in Art)
- A minimum cumulative undergraduate grade point average of 3.0 on a 4.0 scale
- A portfolio of work (20 digital slides or equivalent) which shows technical and conceptual competency and demonstrates the commitment and potential necessary for growth and success in the program
- A statement of purpose/artist’s statement (500 to 700) words that specifically addresses your portfolio of work as well as your goals and interest in pursuing an MFA in Interdisciplinary Visual Art. Include mention of your current practice in relation to your proposed graduate study.
- A resume (no longer than two pages)
- Three original letters of recommendation
- The graduate selection committee may require a personal interview of selected applicants

**Provisional Admission**

Provisional admission may be recommended if the applicant does not meet the minimum requirements. For example, if the overall undergraduate GPA is deficient (2.7 – 3.0) but the Studio Art GPA is 3.0 or higher or the portfolio of work is inadequate but suggests strong potential for success.

Students admitted provisionally must complete the requirements and deficiencies outlined in the letter of provisional admission within the specified timetable and must earn at least a 3.0 in the first semester (or 9 credit hours) of graduate work to continue in the program.

The curriculum assumes adequate preparation for advanced work in studio art. Students who lack that preparation may be asked to take undergraduate level courses to successfully address any deficiencies in their technical or aesthetic training in order to change their admission status from provisional to regular. These courses will not count toward the requirements for the MFA degree.
Graduate Faculty

Samuel Adu-Poku, Ph.D., Professor
Art education; Curriculum development; Multicultural education; Teacher education

Anthony Armeni, M.F.A., Part-time Faculty
Sculpture; Ceramics and Mixed Media

Lauren Baker, M.F.A., Part-time Faculty
Sculpture; Installation; 3-Dimensional Design; Painting

Joy Christiansen Erb, M.F.A., Professor
Photography; Portraiture; Installation

Dragana Cmjak, M.F.A., Associate Professor
Painting; Narrative work; Drawing

Joe D’Uva, M.F.A., Associate Professor
Printmaking; Non-toxic and digital printmaking methods, Collaborative Printing; Study Abroad

Johnathan Farris, Ph.D., Assistant Professor
Art History; Arts of Asia; Art and design related to colonialism and cross-cultural exchange; History of architecture; Arts of tourism and travel; Landscape and topographic art; the relation of gardens and art; History of ceramics, metal, and glass

Rich Helfrich, M.F.A., Assistant Professor
Graphic Design; Visual Communications, Branding, Identity Design, Typography, Graphic Typeface Design, Persuasive Graphics Medical and Recreational Marijuana Labeling Standards

Jennifer Kirkpatrick, M.F.A., Part-time Faculty
Digital Fabrication, Sculpture, Ceramics, Architecture

Lillian Lewis, Ph.D., Assistant Professor
Museum and Community Partnerships; Social Theory; Early Childhood Arts Education; Qualitative Research methods including Arts-Based Research

Missy McCormick, M.F.A., Associate Professor
Ceramics; 3D Studies; Craft; Design; Interdisciplinary Art; Mix Media; Sculpture

Christine E. McCullough, M.F.A., Professor
Representational Painting and Drawing; Encaustic Painting; Interdisciplinary Curriculum

Stephanie Smith, Ph.D., Professor
Art History; Funerary art in the ancient Roman world; Roman glass; Late Antique portraiture

Jonathan Dana Sperry, M.F.A., Associate Professor
Digital Media

Louis Zona, Ph.D., Professor Emeritus
Contemporary and Modern Art history; The New York School; Museology Technologically Based Art

Degree Requirements

Students will take courses based on the following plan:
Interdisciplinary Studio (Sculpture, ceramics, painting, drawing, photography, printmaking, mixed media, installation, digital and new media) 30 semester hours
MFA Seminar in Interdisciplinary Theory 9 semester hours
Strategies in Interdisciplinary Practice 6 semester hours
Electives (Graduate Interdisciplinary and/or Cross Disciplinary) 9 semester hours
MFA Thesis Project & Capstone Research 6 semester hours
Total 60 semester hours

Learning Outcomes

1. The ability to integrate interdisciplinary methods, theory, skills and insights with depth, breadth and professional competence as demonstrated by the production of a relevant body of work.
2. To cultivate and promote interdisciplinary models of hybrid thinking and artistic practice based on collaboration and diverse perspectives, methods, media and processes to solve complex and creative problems.
3. To gain a broad theoretical, historical and cultural understanding of contemporary art and the relationship of art to contemporary society.
4. The capacity to develop ideas and the ability to conduct meaningful research into various fields as necessary for the exploration and production of creative work.
5. The ability to write and speak articulately about personal artistic works and practice as well as other art and theoretical issues.
6. Develop an understanding of the pedagogy of teaching and other business practices as related to career opportunities in art.

Graduate Courses

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.

ART 6910  Studio Problems in Sculpture  1-3 s.h.
Individual research of the technical, visual, conceptual, and aesthetic issues of contemporary sculpture. Professional studio practices are explored as well as conceptual art issues dealing with non-traditional formats, idea-oriented artworks and the notion of 'research,' and the blending of theoretical and material practice. Students develop a self-critical, articulate, and individual approach to solving aesthetic solutions to self-determined visual narratives and challenges. Repeatable for a maximum of six s.h. Prereq.: ART 6910.

ART 6911  Studio Problems in Sculpture  1-3 s.h.
Emphasis on building on ideas researched in ART 6910 to develop greater conceptual, aesthetic, and technical sophistication. Directed readings and writing assignments in addition to professional studio practice are used to promote further development of individual approaches to solving aesthetic solutions to self-determined visual narratives and challenges. May be repeated for a maximum of six s.h. Prereq.: ART 6911.

ART 6920  Historical and Philosophical Foundations of Art Education  3 s.h.
Evaluation of the historical, chronological, and philosophical developments in art education with emphasis on significant trends and movements which have impacted its growth and structure. Prereq.: Graduate status.

ART 6921  Current Issues, Perspectives, and Curriculum Practices in Art Education  3 s.h.
A survey of current issues and legislative mandates that affect art education curriculum. Students will gain insight into curriculum development, implementation, and evaluation of art education programs. Prereq.: Graduate status.

ART 6922  Graduate Seminar in Art Education  3 s.h.
Explores contemporary events, theories, issues, trends, and practices that are influencing the field of art education. Prereq.: Graduate status.

ART 6923  Graduate Art Thesis  1-5 s.h.
Students will develop a thesis in one of three modes: scholarly thesis, studio inquiry and essay, or teaching project and report. Repeatable for up to 5 total semester hours. Prereq.: Graduate status.

ART 6924  Graduate Studio Project and Exhibition  1-5 s.h.
A professional art exhibition and written artist statement as an exit requirement and an alternative to the graduate research thesis option. Activities will include design and production of artworks for exhibition, directed readings, portfolio development, written assignments including an artist statement, oral defense of exhibition, and faculty review. The 5 s.h. requirement can be fulfilled through enrollment in ART 6924 over successive semesters at between 1-5 s.h. credit; however, students are encouraged to complete the course within two semesters. Prereq.: 18 studio credits.

ART 6930  Studio Problems in Ceramics  3 s.h.
Individual research in spatial arts imagery. Concentration on individual study in ceramic construction, firing process and calculation, formulation and firing of clay bodies, and low-fire and high-fire glaze systems. May be repeated for a maximum of six semester hours of credit. Prereq.: Permission of instructor and evidence of previous work.

ART 6931  Studio Problems in Ceramics  1-3 s.h.
Continuation of ART 6930. May be repeated for a maximum of six semester hours of credit. Prereq.: ART 6930.

ART 6932  Studio Problems in Ceramics  1-3 s.h.
Continuation of ART 6931. May be repeated for a maximum of six semester hours of credit. Prereq.: ART 6931.

ART 6940  Studio Problems in Printmaking  3 s.h.
Individual research into monoprinting, intaglio etching, relief printing, silkscreen, lithography, and monotype. May be repeated for a maximum of six semester hours. Prereq.: Portfolio presentation and permission of instructor.

ART 6941  Studio Problems in Printmaking  1-3 s.h.
Continuation of ART 6940. May be repeated for a maximum of six semester hours. Prereq.: ART 6940.

ART 6942  Studio Problems in Printmaking  1-3 s.h.
Continuation of ART 6941. May be repeated for a maximum of six semester hours. Prereq.: ART 6941.

ART 6950  Studio Problems in Painting  3 s.h.
Individual research of two-dimensional form through various media, including oil, acrylic, watercolor, collage, etc. May be repeated for a maximum of six semester hours credit. Prereq.: Permission of instructor and evidence of previous work.

ART 6951  Studio Problems in Painting  3 s.h.
Continuation of ART 6950. May be repeated for a maximum of six semester hours credit. Prereq.: ART 6950.

ART 6952  Studio Problems in Painting  1-3 s.h.
Continuation of ART 6951. May be repeated for a maximum of six semester hours credit. Prereq.: ART 6951.

ART 6960  Special Topics in Art History  3 s.h.
Study in one of the many areas of art history. May be taken up to three times for credit if the topic is not repeated. Prereq.: Permission of instructor and documentation of previous work.

ART 6970  Studio Problems in Photography  3 s.h.
Individual research of photography through selected technical and aesthetic photographic topics using a variety of approaches for advanced fine art applications. May be repeated for a maximum of six semester hours of credit. Prereq.: Permission of instructor and documentation of previous work.

ART 6971  Studio Problems in Photography  3 s.h.
Continuation of ART 6970. May be repeated for six semester hours of credit. Prereq.: ART 6970.

ART 6972  Studio Problems in Photography  3 s.h.
Continuation of ART 6971. May be repeated for six semester hours of credit. Prereq.: ART 6971.

ART 6980  Studio Problems Digital Media  3 s.h.
Individual research in digital forms of expression through various media, including but not limited to printed digital collage, video and Internet-based projects. May be repeated for a maximum of six semester hours of credit. Prereq.: Permission of instructor and documentation of previous work.

ART 6981  Studio Problems Digital Media  3 s.h.
Continuation of ART 6980. May be repeated for six semester hours of credit. Prereq.: ART 6980.
ART 6982  Studio Problems Digital Media  3 s.h.
Continuation of ART 6981. May be repeated for six semester hours of credit.
Prereq.: ART 6981.

ART 6990  Interdisciplinary Studio  1-6 s.h.
Self-motivated graduate study informed by contemporary theory and discourse. Students follow a personal, self-proposed, conceptual direction and work independently, supported by faculty. First year placed on challenging traditional ideas about creative practice by connecting and integrating various creative processes, materials and methodologies. Through scheduled critiques students present and discuss their studio research with peers and faculty. Total of 6 s.h. with a minimum of two different faculty first year fall semester.
Prereq.: Admission to MFA program.

ART 6991  Interdisciplinary Studio 2  1-9 s.h.
Continuation of ART 6990. Self-motivated, individual studio practice. At the end of the second semester students are assessed on the ability to integrate self-directed research with the ideas and concepts proposed in the Interdisciplinary Seminar and Strategies courses. Second semester culminates in a first year group exhibition. Total of 1 to 9 s.h. with a minimum of two different faculty first year second semester.
Prereq.: ART 6990.

ART 6992  Interdisciplinary Studio 3  1-6 s.h.
Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester.
Prereq.: ART 6991.

ART 6993  Interdisciplinary Studio 4  1-9 s.h.
Continuation of ART 6992. Self-motivated, individual studio practice. In the final semester students are focused on studio research and production to prepare for their MFA Thesis Project and Capstone. Total of 9 s.h. with a minimum of two different faculty second year spring and final semester.
Prereq.: ART 6992.

ART 6994  Strategies in Interdisciplinary Practice 1  3 s.h.
Through a wide range of readings and presentations, this course will explore the significant moments, theoretical foundations and current trends within interdisciplinary and collaborative visual art practices. These explorations will be paired with a series of long and short projects that demystify strategies and problems within the range of visual art practices discussed. The course will also discuss modes of content communication that exist across the different disciplines such as the use of specific symbols, materials, processes and context. While ideas and readings may link with the MFA seminar, this course is designed to give students a solid theoretical and practical foundation in an interdisciplinary studio art practice.
Prereq.: Admission to MFA program.

ART 6995  Strategies in Interdisciplinary Practice 2  3 s.h.
Through a wide range of readings and presentations, this course will expand on the dialogue from Strategies in Interdisciplinary Practice 1. These explorations will be paired with a series of long and short projects that demystify strategies and problems within the range visual art practices discussed. The course will also discuss modes of content communication that exist across the different disciplines, such as the use of specific symbols, materials, processes and context. While ideas and reading in this course may link and connect with the MFA seminar, this course is designed to build upon the solid theoretical and practical foundation built in Strategies in Interdisciplinary Practice.
Prereq.: ART 6994.

ART 6996  Seminar in Interdisciplinary Theory 1  3 s.h.
Covering the key concepts and topics of modern and contemporary critical theory, the course examines various aesthetic, cultural, political climates in relation to developments of interdisciplinary art practice. MFA Seminar should be taken in sequence and serve as a dynamic forum for student research, critique, discussion, and the conceptual foundation for their individual studio practices.
Prereq.: Admission to MFA program.

ART 6997  Seminar Interdisciplinary Theory 2  3 s.h.
Topic will rotate each semester and address key concepts and topics of modern and contemporary critical theory. The course provides various perspectives towards the understanding of interdisciplinary art practice and critical discourses within contemporary art culture. Students will investigate interconnections between philosophical and theoretical issues and the ways they inform and impact interdisciplinary art practice today. MFA Seminar should be taken in sequence and serve as a foundation for individual studio practices.
Prereq.: ART 6996.

ART 6998  Seminar Interdisciplinary Theory 3  3 s.h.
Topics will vary each semester and address key concepts and topics of modern and contemporary critical theory. The course provides ongoing discussion surrounding the understanding of interdisciplinary art practice and critical discourses within contemporary art culture. Students will investigate interconnections between philosophical and theoretical issues and the ways they inform and impact interdisciplinary art practice today. As the last course within MFA Seminary sequence, it serves as a foundation for individual studio practice.
Prereq.: ART 6996.

ART 6999  MFA Thesis Project and Capstone Research  6 s.h.
Programmatic exit requirement and culmination of the 60 credit MFA in Interdisciplinary Visual Arts. Activities include design and production of artworks for exhibition, directed readings, writing assignments including thesis and portfolio development, professional practices, exhibition design, oral thesis defense and faculty review.
Prereq.: permission of graduate advisor.

Master of Health and Human Services
Program Director
Dr. Ron Chordas (Interim)
(330) 941-3113
rchkordas@ysu.edu  
(330) 941-3113
rchkordas@ysu.edu

Program Description
The Master of Health and Human Services program prepares students from health and human services backgrounds with the skills and abilities for supervisory/managerial or health promotion positions in the community. The program is structured as a completely online or evening college program. After completion of an academic core of coursework, students may concentrate in health promotion, health care administration or health informatics for health and human service professions. The Master of Business Administration healthcare administration track is a collaborative degree between The Bitonti College of Health and Human Services and the Warren P. Williamson, Jr. College of Business Administration.

Admission Requirements
In addition to the minimum College of Graduate Studies admission requirements, applicants must complete the following undergraduate courses or their equivalent:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>Statistics</td>
<td>Research Methodology</td>
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</table>

Students should complete any undergraduate deficiency coursework before completion of the third semester of graduate work and must complete it prior to enrolling in related graduate-level courses. Also, students must submit three letters of reference:

- one from a faculty member,
- one from an employer, and...
Select one of the following tracks for graduation:

- Comprehensive examination and additional courses for graduation.
- Committee of graduate faculty from a minimum of two academic disciplines.

A student is required to defend the thesis in an oral presentation before a general requirements established by the College of Graduate Studies. The student must complete an internship. The thesis must be submitted according to the non-thesis option in the health promotion, administration for health and human service professions, health informatics. Each track offers a thesis or non-thesis option. The academic core consists of 15 semester hours distributed among the following course areas:

- Research and Statistics (6 semester hours),
- Health service and health performance courses (9 semester hours)

A total of 15 semester hours of coursework is devoted to a specialty track in health promotion, administration for health and human service professions, or health informatics. Each track offers a thesis or non-thesis option. The non-thesis option in the health promotion, administration for health and human service professions, and health informatics track requires the student to complete an internship. The thesis must be submitted according to the general requirements established by the College of Graduate Studies. The student is required to defend the thesis in an oral presentation before a committee of graduate faculty from a minimum of two academic disciplines. Students selecting the non-thesis option must successfully complete a comprehensive examination and additional courses for graduation.

COURSE | TITLE | S.H.
--- | --- | ---
**Academic Core**
CJFS 6942 | Research and Statistics in Health and Human Services | 3
HHS 6980 | Seminar | 3
HHS 6953 | Health Behavior | 3
HHS 6962 | Health Care Reform | 3
HHS 6958 | Health Services Issues | 3
Total Semester Hours | 15

Select one of the following tracks

**Health Promotion Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
<th>Minimum hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHS 6960</td>
<td>Health Education and Promotion</td>
<td>4</td>
<td>15</td>
</tr>
<tr>
<td>HRS 8990</td>
<td>Graduate Research in Health Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HHS 6949</td>
<td>Community Health Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HHS 6922</td>
<td>Planning and Fiscal Management</td>
<td>4</td>
<td></td>
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<tr>
<td>HHS 6990</td>
<td>Internship (or)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HHS 6999</td>
<td>Thesis (If Thesis Option Selected)</td>
<td>4</td>
<td></td>
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</tbody>
</table>

**Health Care Administration Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
<th>Minimum hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHS 6918</td>
<td>Program Planning and Evaluation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HHS 6932</td>
<td>Health Care Administration</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>HHS 6922</td>
<td>Planning and Fiscal Management</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>HHS 6971</td>
<td>Optimizing Performance and Commitment</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Health Informatics Track**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
<th>Minimum hours</th>
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<tbody>
<tr>
<td>HRS 8970</td>
<td>Scientific Writing in Health Sciences</td>
<td>3</td>
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<tr>
<td>HHS 6990</td>
<td>Internship</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>HHS 6999</td>
<td>Thesis (If Thesis Option Selected)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Learning Outcomes**

1. The student will demonstrate skills to access and integrate important facts, concepts, principles, and theories in the field of management when developing solutions to problems.
2. The student will utilize current technologies such as, computer and online systems/services, to access and communicate information.
3. The student will demonstrate effective research skills.
4. The student will produce a manuscript in a style suitable for publication.
5. The student will demonstrate skills to critically analyze health and human services issues.

**Graduate Courses**

**HHS 6900 Special Topics** 1-3 s.h.
Topics may vary from semester to semester and will be announced along with prerequisites and hours. May be repeated once for a total of six hours.

**HHS 6918 Program Planning and Evaluation** 3 s.h.
Principles of planning, developing, implementing, and evaluating programs for nonprofits to improve outcomes.
Prereq.: College of Health and Human Services student or permission of instructor.

**HHS 6922 Planning and Fiscal Management** 4 s.h.
Principles and skills to conduct strategic plans, analyze and administer programs, develop budgets, and familiarize students with fiscal matters related to funding sources.
Prereq.: ACCT 2602 and HHS 6918 or permission of instructor.

**HHS 6930 Health Informatics** 3 s.h.
This course presents a detailed review of the structure of provider, payer, and other health care organizations along with the workflow in these types of organizations and their information system needs; how informatics assists these organizations; how information is used in business and clinical operations; and how information technologies interact with business and clinical stakeholders.
Prereq.: MHHS student or permission of instructor.

**HHS 6932 Health Care Administration** 3 s.h.
This course focuses on the fundamental philosophy and techniques common to healthcare Administration. Students will develop skills related to the following broad healthcare management competencies: (1) communication and relationship management, (2) professionalism, (3) leadership, (4) knowledge of the healthcare system, and (5) business skills and knowledge. A key feature of this course is the use of a well-known simulation model call FlexSim. Students utilize a copy of the simulation model and detailed case studies of the simulation from major hospital systems across the US.
Prereq.: acceptance to the MHHS Program.
HHS 6935 Clinical Informatics 3 s.h.
This course will provide Health and Human Services student with a comprehensive framework of Clinical informatics knowledge. It addresses how clinical informatics assists health care organizations, how information is used in clinical operations, and how information technologists interact with clinical stakeholders in provider, payer, and other healthcare organizations. Health care delivery applications include electronic health records, clinical information systems, Tele-health, patient safety, patient and community education, and care management. Students will analyze the informatics function and organizational relationships in their organizations.
Prereq.: Current enrollment in the MHHS or MSN program, or with permission of the instructor; Senior nursing students may take with permission from the Nursing department and the Graduate College.

HHS 6945 Health Care System Analysis 3 s.h.
This course presents a practical approach to introduce students to information technology and systems development. The course emphasizes the importance of system analysis and design in health care/business and clinical environments. The focus is on producing an add application that is integrated with your vendor applications.
Prereq.: Current enrollment in the MHHS or MSN program and successful completion of HHS 6930.

HHS 6949 Community Health Practice 3 s.h.
An examination of various physiological, psychological, and sociological factors which influence the health and provision of healthcare in a community.
Prereq.: AHLT 4810 and PHLT 3791 or equivalent or permission of instructor.

HHS 6949X Community Health Practice XR 3 s.h.
An examination of various physiological, psychological, and sociological factors which influence the health and provision of healthcare in a community.
Prereq.: AHLT 4810 and PHLT 3791 or equivalent or permission of instructor.

HHS 6953 Health Behavior 3 s.h.
A review of research studies, theories, and models which identify elements that influence behavior and determine factors which deter positive behaviors.
Prereq.: HHS 6949 or permission of instructor.

HHS 6955 Health Care Quality in the Electronic Health Record 3 s.h.
This course presents a review of the Electronic Health Record and the US National Health Information Network. Structure of provider, payer, and other health care organizations along with the work flow in these types of organizations and their information system’s needs. It addresses how informatics assists these organizations, how information is used in business and clinical operations, and how information technologists interact with business and clinical stakeholders in provider, payer, and other healthcare organizations. Students will analyze the informatics function and organizational relationships in their organizations.

HHS 6958 Health Services Issues 3 s.h.
An examination of current philosophical, legal, and ethical issues in healthcare with the inclusion of the role of health professionals in national health policy, and healthcare reform.
Prereq.: HHS 6949 or permission of instructor.

HHS 6959 Foundation and Planning 3 s.h.
Developing effective health promotion programs through a study of the history, philosophy, ethics, and values of health promotion, as well as the principles of effective planning incorporating needs assessment and formulation of objectives.
Prereq.: CHHS student or permission of instructor.

HHS 6960 Health Education and Promotion 4 s.h.
Developing effective health promotion programs through a study of the history, philosophy, ethics, and values of health promotion.
Prereq.: Admission to the MHHS program or permission of the instructor.

HHS 6962 Health Care Reform 3 s.h.
The purpose of the course is to give students the skills necessary to understand all aspects of health and health care especially those related to Health Care Reform and recent and previous legislation. It will examine the supply of and demand for health services, and the analysis of health care systems and current, previous and potential future legislation relevant to health care reforms.
Prereq.: MHHS or OMBA major.

HHS 6971 Optimizing Performance and Commitment 3 s.h.
An examination of the motivational culture and performance in health and human services organizations. Includes the impact of resource management, personnel selection, recruitment, retention, and the motivational system in relation to employee performance and commitment.
Prereq.: AHLT 4810 or MGT 6900.

HHS 6980 Seminar 3 s.h.
A synthesis of the role of education and management in health or human services. Emphasis on specific problems, concerns, or relative issues related to various work settings. Researched, developed, and presented using manuscript form and PowerPoint.
Prereq.: HHS 6958 and any research class or permission of instructor.

HHS 6990 Internship 2 s.h.
Supervised internship in selected health and human services facilities offering health and human services administration experience.
Prereq.: Approval of advisor.

HHS 6999 Thesis 1-4 s.h.

HHS 8949 Community Health Practice 3 s.h.
An examination of various physiological, psychological, and sociological factors, which influence the health and provision of healthcare in a community.
Prereq.: AHLT 4810 and PHLT 3791 or equivalent or permission of instructor.

HHS 8949X Community Health Practice XR 3 s.h.
An examination of various physiological, psychological, and sociological factors, which influence the health and provision of healthcare in a community.
Prereq.: AHLT 4810 and PHLT 3791 or equivalent or permission of instructor.

HHS 8953 Health Behavior 3 s.h.
A review of research studies, theories, and models which identify elements that influence behavior and determine factors which deter positive behaviors.
Prereq.: HHS 6949 or permission of instructor.

HHS 8958 Health Services Issues 3 s.h.
An examination of current philosophical, legal, and ethical issues in healthcare with the inclusion of the role of health professionals in national health policy and healthcare reform.
Prereq.: HHS 6949 or permission of instructor.

HHS 8958 Community Health Practice 3 s.h.
An examination of various physiological, psychological, and sociological factors, which influence the health and provision of healthcare in a community.

HHS 8958X Community Health Practice XR 3 s.h.
An examination of various physiological, psychological, and sociological factors, which influence the health and provision of healthcare in a community.

HHS 8959 Foundation and Planning 3 s.h.
Developing effective health promotion programs through a study of the history, philosophy, ethics, and values of health promotion, as well as the principles of effective planning incorporating needs assessment and formulation of objectives.
Prereq.: CHHS student or permission of instructor.

HHS 8960 Health Education and Promotion 4 s.h.
Developing effective health promotion programs through a study of the history, philosophy, ethics, and values of health promotion.
Prereq.: Admission to the MHHS program or permission of the instructor.

Health Informatics Certificate
Program Director
Dr. Ron Chordas (Interim)
(330) 941-3113
rchordas@ysu.edu (jplyons@ysu.edu)

The Health Informatics was designed for students in the Computer Science Information Systems (CSIS) interested in working in Health Care to earn a certificate which will help them gain employment in the Health Care field which has undergone a significant advancement in recent years in the area of Health Information Systems. MHHS students will also have an opportunity to receive
additional training in Computer Science Information Systems leading to a Health Informatics Certificate in addition to their MHHS Degree.

**Admission Requirements**
Admission to the HHS or CSIS program.

**Certificate Requirements**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>HHS 6949</td>
<td>Community Health Practice</td>
<td></td>
</tr>
<tr>
<td>HHS 6953</td>
<td>Health Behavior</td>
<td></td>
</tr>
<tr>
<td>HHS 6958</td>
<td>Health Services Issues</td>
<td></td>
</tr>
<tr>
<td>HHS 6962</td>
<td>Health Care Reform</td>
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<tr>
<td>Complete 3 semester hours of the following:</td>
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<tr>
<td>HHS 6930</td>
<td>Health Informatics</td>
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<tr>
<td>or</td>
<td>CSCI 6920</td>
<td>Theory and Practice of Information Systems</td>
</tr>
<tr>
<td>HHS 6935</td>
<td>Clinical Informatics</td>
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</tr>
<tr>
<td>HHS 6945</td>
<td>Health Care System Analysis</td>
<td>3</td>
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<td>or</td>
<td>CSCI 6951</td>
<td>Data Warehousing and Data Mining</td>
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<tr>
<td>HHS 6955</td>
<td>Health Care Quality in the Electronic Health Record</td>
<td>3</td>
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<td>Complete 9 semester hours of the following:</td>
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<tr>
<td>HHS 6900</td>
<td>Special Topics</td>
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<tr>
<td>HHS 6922</td>
<td>Planning and Fiscal Management</td>
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<tr>
<td>HHS 6918</td>
<td>Program Planning and Evaluation</td>
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<tr>
<td>CSCI 6901</td>
<td>Principles of Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>CSCI 6971</td>
<td>Cloud Computing and Big Data</td>
</tr>
</tbody>
</table>

**Learning Outcomes**

1. To prepare future health informatics leaders who understand the complex interplay among the health informatics stakeholder communities,
2. To enhance the ability to use the inter-relationships among health information technology, the healthcare delivery and regulatory processes, and information management,
3. To grow a set of leadership behaviors that emphasizes professional competence, moral and ethical performance,
4. To demonstrate professional and technical competence in health informatics,
5. To instill a dedication to the use of technology for the benefit of humanity,
6. To create a sensitivity to the impact that the use of technology has on the person, and
7. To build a desire for lifelong professional learning and development in health informatics.

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**Master of Music**

**Program Director**
Dr. Joseph Carucci

**Bliss Hall 3010**

**jwcarucci@ysu.edu**

**330) 941-1439**

**Program Description**

Master's degrees are offered in music education, music performance, music history, music theory/composition, and jazz studies through the Dana School of Music, which was founded in Warren, Ohio, in 1869 as Dana’s Musical Institute. A member of the National Association of Schools of Music, Dana currently enrolls 220 undergraduate and graduate students. The Dana School of Music is designated an All-Steinway School, featuring 68 Steinway pianos in addition to two organs, two harpsichords, recording studio, MIDI computer lab, and 80 acoustically treated practice rooms, all housed in the $6 million Bliss Hall. In addition, the Maag library contains a large music area, especially notable for its collected, scholarly, and practical editions and several thousand recordings.

**Graduate Faculty**

Ewelina Boczkowska, Ph.D., Professor  
Music, memory, and Polish film; “auteur” cinema; American musicals; Chopin; music in the 1960’s

Michael S. Butler, Ph.D., Associate Professor  

Joseph W. Carucci, D.M.A., Professor, Chair

Kent J. Engelhardt, Ph.D., Professor  
Charlie Parker; Bebop; Kansas City Jazz

Francois P. Fowler, D.M., Professor  
Guitar performance, pedagogy, and literature

Randall E. Goldberg, Ph.D., Associate Professor  
Historical musicology; early modern Europe; 18th century music; Jewish identity

Daniel Keown, Ph.D., Associate Professor  
Psychology of music in multimedia; film music pedagogy; music education; technology integration in music teaching; music creativity

Christopher Krummel, D.M.A., Professor

Hae-Jong Lee, D.M.A., Associate Professor  
Choral conducting and literature; voice studies

J. Paul Louth, Ph.D., Associate Professor  
Instrumental music education; brass methods; trombone

David S. Morgan, D.M.A., Professor  
Jazz performance; composition; music theory

Caroline Oltmanns, D.M.A., Professor  
Piano performance

Steven M. Reale, Ph.D., Professor  
Music dramas of Richard Wagner; intersections between music and narrative; mathematical approaches to music theory; Schenkerian analysis

Jena Root, Ph.D., Professor
Music theory pedagogy; music technology; women composers

Glenn Schaft, D.M.A., Professor
Percussion; classical, contemporary, jazz, Afro-Cuban, and Brazilian music

James C. Umble, D.M.A., Professor
Technology in education; music technology; music performance and pedagogy (saxophone); curriculum development in the arts; integrated arts

Kathryn T. Umble, D.M.A., Professor
Japanese flute; flute; guitar

Cicilia Yudha, D.M.A., Associate Professor
Piano performance (solo, collaborative, chamber music); class piano; pedagogy; literature; 20th - 21st centuries French and Indonesian musical lineages

Misook Yun, D.M.A., Professor
Opera; oratorio; chamber music; art songs

**Graduate Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
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<td>BASS 5800A</td>
<td>Bassoon</td>
<td>1 s.h.</td>
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<tr>
<td>BASS 5800B</td>
<td>Bassoon</td>
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<td>BASS 6901</td>
<td>Bassoon</td>
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<td>BASS 6902</td>
<td>Bassoon</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>BASS 6903</td>
<td>Bassoon</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>BASS 6904</td>
<td>Bassoon</td>
<td>3 s.h.</td>
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<tr>
<td>BASS 6905</td>
<td>Bassoon</td>
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<td>BASS 6906</td>
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<tr>
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<td>1 s.h.</td>
</tr>
<tr>
<td>CELL 6901</td>
<td>Cello</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>CELL 6902</td>
<td>Cello</td>
<td>2 s.h.</td>
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<tr>
<td>CELL 6903</td>
<td>Cello</td>
<td>3 s.h.</td>
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<td>Cello</td>
<td>3 s.h.</td>
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<tr>
<td>CLAR 5800A</td>
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<tr>
<td>CNDC 6901</td>
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<td>2 s.h.</td>
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<tr>
<td>CNDC 6903</td>
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<td>3 s.h.</td>
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<td>CNDC 6904</td>
<td>Conducting</td>
<td>3 s.h.</td>
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<td>Conducting</td>
<td>4 s.h.</td>
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<tr>
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<td>Conducting</td>
<td>4 s.h.</td>
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<tr>
<td>FHRN 5800A</td>
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<td>1 s.h.</td>
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<td>2 s.h.</td>
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<tr>
<td>FHRN 6902</td>
<td>French Horn</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>FHRN 6903</td>
<td>French Horn</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FHRN 6904</td>
<td>French Horn</td>
<td>3 s.h.</td>
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<tr>
<td>FHRN 6905</td>
<td>French Horn</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>FHRN 6906</td>
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<td>FLUT 5800A</td>
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<tr>
<td>FLUT 6901</td>
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<tr>
<td>FLUT 6902</td>
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<td>FLUT 6904</td>
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<td>3 s.h.</td>
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<tr>
<td>FLUT 6905</td>
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<td>Flute</td>
<td>4 s.h.</td>
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<tr>
<td>GUIT 5800A</td>
<td>Guitar</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>GUIT 5800B</td>
<td>Guitar</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>GUIT 6901</td>
<td>Guitar</td>
<td>1 s.h.</td>
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</table>
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.

MUED 6950 Conducting Pedagogy 2 s.h.
The study and critical analysis of methods for teaching conducting.
Prereq.: One semester of applied conducting study.

MUED 6960 Research in Music 3 s.h.
A study of research tools and methodologies as applied to music scholarship and bibliography. This course is intended to lay the foundation for the thesis or exit paper, and a final research project or project proposal is required. May include the study of historical, philosophical, qualitative, quantitative, and/or analytic research methods, as deemed appropriate for students' areas of research. Crosslisted with MUHL 6960.

MUED 6970 Foundations of Music Education 3 s.h.
An examination of basic principles and techniques of music instruction; contemporary trends viewed from historical perspectives.

MUED 6972 Seminar in Music Education 3 s.h.
Individual projects and discussion of fundamental issues in music education. Course may be repeated once with permission of instructor.

MUED 6973 Research Methods and Materials in Music Education 3 s.h.
A study of research tools and techniques and their application to problems in music education; critique of research studies. Research report required in nonthesis music education program.

MUED 6975 Music and the Humanities 3 s.h.
Designed to aid in the development of interdisciplinary courses involving music and the humanities in the secondary school.

MUED 6976 Directed Study in Conducting 3 s.h.
Study of significant works, vocal or instrumental; special problems in conducting. May be repeated for credit.

MUED 6977 Philosophies of Music 3 s.h.
Development of advanced music scholarship skills through readings, analysis, and critique of some of the major ideas about music's value and place in society that have been advanced by scholars ranging from the ancient Greeks to contemporary music critics, performers, philosophers, educators, and psychologists. Course takes an interdisciplinary approach to developing the skills to articulate music advocacy arguments. One of three core required courses for all masters students.

MUED 6978 Contemporary Trends in Music Education 3 s.h.
Examination and discussion of music education in contemporary society. Consideration of repertoire, methods, and teaching aids with regard to current needs and emerging trends.

MUED 6979 Workshop in Music Education 1-3 s.h.
For students and teachers in service. Specific topics are announced each time the workshop is offered. Grading is satisfactory or unsatisfactory (S/U). May be repeated with different topic.

MUED 6981 Elementary School Music Practicum 3 s.h.
Field experiences, demonstrations, and lectures to acquaint the student with the many facets of elementary music instruction. Contemporary trends and innovative programs will be examined. Students will be encouraged to introduce certain programs and approaches in their own teaching situations.
Prereq.: Teaching experience or student teaching.

MUED 6982 Secondary School Music Practicum 3 s.h.
An examination of the total secondary school music program through guided field experiences, demonstrations, and lectures. The development of curriculum in general music and instrumental and vocal music will be considered in light of the student's needs and abilities.
Prereq.: Teaching experience or student teaching.

MUED 6992 Independent Projects in Music 1-4 s.h.
Individual research topics in music of a library, laboratory, or fieldwork nature.
Prereq.: Approval of Dana Graduate Committee.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Notes</th>
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</thead>
<tbody>
<tr>
<td>MUHL 5860</td>
<td>Keyboard Literature</td>
<td>3 s.h.</td>
<td>An investigation of the solo keyboard works of major composers from the earliest times to the present day. Prereq.: MUTC 2632.</td>
</tr>
<tr>
<td>MUHL 5871</td>
<td>Baroque Music</td>
<td>3 s.h.</td>
<td>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.</td>
</tr>
<tr>
<td>MUHL 5872</td>
<td>Eighteenth Century and the Viennese Classical School</td>
<td>3 s.h.</td>
<td>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, and Beethoven. Prereq.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773 and MUHL 3774.</td>
</tr>
<tr>
<td>MUHL 5873</td>
<td>Opera History</td>
<td>3 s.h.</td>
<td>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.</td>
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<tr>
<td>MUHL 5874</td>
<td>Nineteenth Century</td>
<td>3 s.h.</td>
<td>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.</td>
</tr>
<tr>
<td>MUHL 5875</td>
<td>Selected Topics in Music History</td>
<td>3 s.h.</td>
<td>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.</td>
</tr>
<tr>
<td>MUHL 5876</td>
<td>Vocal Literature</td>
<td>3 s.h.</td>
<td>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.: MUTC 2632, MUHL 3771, MUHL 3772, MUHL 3773, and MUHL 3774.</td>
</tr>
<tr>
<td>MUHL 6940</td>
<td>Music in the Middle Ages</td>
<td>3 s.h.</td>
<td>The development of polyphonic music, early organum to ca. 1450, with emphasis on techniques, styles, and forms. Seminar, with readings, reports, and musical illustrations.</td>
</tr>
<tr>
<td>MUHL 6941</td>
<td>Music in the Renaissance</td>
<td>3 s.h.</td>
<td>Musical developments from ca. 1450-1600 dealing with the vocal music of this period, both sacred and secular, and the formulation of independent instrumental styles. Seminar with readings, reports, and musical illustrations.</td>
</tr>
<tr>
<td>MUHL 6943</td>
<td>Seminar in Musicology</td>
<td>3 s.h.</td>
<td>An examination of select problems in musicology. May be repeated with permission of instructor.</td>
</tr>
<tr>
<td>MUHL 6944</td>
<td>Seminar in Symphonic Literature</td>
<td>3 s.h.</td>
<td>An investigation of the literature written for symphony orchestra.</td>
</tr>
<tr>
<td>MUHL 6945</td>
<td>Selected Topics in Music Literature</td>
<td>3 s.h.</td>
<td>Various topics related to the study of music literature. Specific topic is announced each time the course is offered. May be repeated with a different topic.</td>
</tr>
<tr>
<td>MUHL 6946</td>
<td>Selected Topics in Jazz History</td>
<td>3 s.h.</td>
<td>Topical studies will develop a historical perspective of a specific period of jazz or a specific jazz artist including related cultures, events, and the development of musical style. Sample topics: early jazz, the Post-Bop Era, the music of John Coltrane. May be repeated with a different topic.</td>
</tr>
<tr>
<td>MUHL 6960</td>
<td>Research in Music</td>
<td>3 s.h.</td>
<td>A study of research tools and methodologies as applied to music scholarship and bibliography. This course is intended to lay the foundation for the thesis or exit paper, and a final research project or project proposal is required. May include the study of historical, philosophical, qualitative, quantitative, and/or analytic research methods, as deemed appropriate for students’ areas of research. Crosslisted with MUED 6960.</td>
</tr>
<tr>
<td>MUHL 6977</td>
<td>Philosophies of Music</td>
<td>3 s.h.</td>
<td>Development of advanced music scholarship skills through readings, analysis, and critique of some of the major ideas about music’s value and place in society that have been advanced by scholars ranging from the ancient Greeks to contemporary music critics, performers, philosophers, educators, and psychologists. Course takes an interdisciplinary approach to developing the skills to articulate music advocacy arguments. One of three core required courses for all masters students.</td>
</tr>
<tr>
<td>MUHL 6990</td>
<td>Thesis 1</td>
<td>3 s.h.</td>
<td>Individual research and writing culminating in the preparation of a master’s thesis. Prereq.: Completion of 15 semester hours coursework.</td>
</tr>
<tr>
<td>MUTC 5821</td>
<td>Composition for Minors</td>
<td>2 s.h.</td>
<td>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 &quot;C&quot; or better, or permission of instructor for composition majors.</td>
</tr>
<tr>
<td>MUTC 5822</td>
<td>Composition for Minors</td>
<td>2 s.h.</td>
<td>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 &quot;C&quot; or better, or permission of instructor for composition majors.</td>
</tr>
<tr>
<td>MUTC 5828</td>
<td>Music Technology</td>
<td>3 s.h.</td>
<td>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 &quot;C&quot; or better or permission of instructor.</td>
</tr>
<tr>
<td>MUTC 5830</td>
<td>Materials of 20th Century Music</td>
<td>3 s.h.</td>
<td>Study of the various elements of 20th century compositions, including melody, harmony, rhythm, texture, and form. Prereq.: MUTC 2632 with a grade of &quot;C&quot; or better.</td>
</tr>
<tr>
<td>MUTC 5831</td>
<td>Modal Counterpoint</td>
<td>3 s.h.</td>
<td>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 &quot;C&quot; or better.</td>
</tr>
<tr>
<td>MUTC 5832</td>
<td>Tonal Counterpoint</td>
<td>3 s.h.</td>
<td>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 &quot;C&quot; or better.</td>
</tr>
<tr>
<td>MUTC 5834</td>
<td>Electronic Music</td>
<td>3 s.h.</td>
<td>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 &quot;C&quot; or better, or non-majors, permission of instructor.</td>
</tr>
</tbody>
</table>
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.

MUTC 6903 Advanced Composition 3 s.h.
Individual instruction in the composition of larger forms for chorus, orchestra, or chamber ensembles.
Prereq.: Permission of Instructor.

MUTC 6904 Advanced Composition 3 s.h.
Individual instruction in the composition of larger forms for chorus, orchestra, or chamber ensembles.
Prereq.: Permission of Instructor.

MUTC 6913 Pedagogy of Theory 3 s.h.
The study and critical analysis of methods for teaching harmony, sight-singing, and ear training.

MUTC 6916 Fugue 3 s.h.
Analysis of the fugal style used in 17th-century trio sonatas and in both volumes of The Well-Tempered Clavier by J. S. Bach; writing three to four voice fugues employing imitative and invertible counterpoint.

MUTC 6921 Graduate Analysis 1 3 s.h.
Foundational graduate study of musical analysis. Includes basic techniques of harmonic, melodic, and rhythmic analysis applied to a selection of music literature from the seventeenth century through the present time.

MUTC 6922 Graduate Analysis 2 3 s.h.
Continuing graduate study of musical analysis. Includes advanced techniques of harmonic, melodic, and rhythmic analysis applied to a selection of music literature from the seventeenth century through the present time.
Prereq.: MUTC 6921 with a grade of “B” or higher or 70% or higher on graduate entrance exam or instructor’s permission.

MUTC 6930 Baroque Music Styles 3 s.h.
Stylistic and structural analysis of compositions from the Baroque Era.

MUTC 6931 Classic Music Styles 3 s.h.
Stylistic and structural analysis of compositions from the Classic Era.

MUTC 6932 Romantic Music Styles 3 s.h.
Stylistic and structural analysis of compositions from the Romantic Era.

MUTC 6933 Twentieth-Century Music Styles 3 s.h.
Stylistic and structural analysis of compositions from the 20th century.

MUTC 6935 Jazz Theory 3 s.h.
This course examines the process of jazz improvisation and undertakes a critical evaluation of the existing modes of analyzing improvisation. Students will learn to differentiate between pedagogical, speculative, and analytical theory and to apply appropriate analytical techniques according to the musical context. Emphasis will be placed on the development of critical listening and reading skills.

MUTC 6936 Jazz Composition 3 s.h.
Students will study the styles of leading jazz composers and arrangers in the process of developing their craft and their own style. Assignments will include a portfolio of compositions and analysis of compositions by Jelly Roll Morton, Duke Ellington, Thad Jones, and others.

OBOE 5800A Oboe 1 s.h.
Private Music Lessons.

OBOE 5800B Oboe 1 s.h.
Private Music Lessons.

OBOE 6901 Oboe 2 s.h.
Private Music Lessons.

OBOE 6902 Oboe 2 s.h.
Private Music Lessons.

OBOE 6903 Oboe 3 s.h.
Private Music Lessons.

OBOE 6904 Oboe 3 s.h.
Private Music Lessons.

OBOE 6905 Oboe 4 s.h.
Private Music Lessons.

OBOE 6906 Oboe 4 s.h.
Private Music Lessons.

ORGN 5800A Organ 1 s.h.
Private Music Lessons.

ORGN 5800B Organ 1 s.h.
Private Music Lessons.

ORGN 6901 Organ 2 s.h.
Private Music Lessons.

ORGN 6902 Organ 2 s.h.
Private Music Lessons.

ORGN 6903 Organ 3 s.h.
Private Music Lessons.

ORGN 6904 Organ 3 s.h.
Private Music Lessons.

ORGN 6905 Organ 4 s.h.
Private Music Lessons.

ORGN 6906 Organ 4 s.h.
Private Music Lessons.

PERC 5800A Percussion 1 s.h.
Private Music Lessons.

PERC 5800B Percussion 1 s.h.
Private Music Lessons.

PERC 6901 Percussion 2 s.h.
Private Music Lessons.

PERC 6902 Percussion 2 s.h.
Private Music Lessons.

PERC 6903 Percussion 3 s.h.
Private Music Lessons.

PERC 6904 Percussion 3 s.h.
Private Music Lessons.

PERC 6905 Percussion 4 s.h.
Private Music Lessons.

PERC 6906 Percussion 4 s.h.
Private Music Lessons.

PIAN 5800A Piano 1 s.h.
Private Music Lessons.

PIAN 5800B Piano 1 s.h.
Private Music Lessons.

PIAN 6901 Piano 2 s.h.
Private Music Lessons.

PIAN 6902 Piano 2 s.h.
Private Music Lessons.

PIAN 6903 Piano 3 s.h.
Private Music Lessons.

PIAN 6904 Piano 3 s.h.
Private Music Lessons.

PIAN 6905 Piano 4 s.h.
Private Music Lessons.

PIAN 6906 Piano 4 s.h.
Private Music Lessons.

SAX 5800A Saxophone 1 s.h.
Private Music Lessons.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instrument</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>SAX 5800B</td>
<td>Saxophone</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SAX 6901</td>
<td>Saxophone</td>
<td>2 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SAX 6902</td>
<td>Saxophone</td>
<td>2 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SAX 6903</td>
<td>Saxophone</td>
<td>3 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SAX 6904</td>
<td>Saxophone</td>
<td>3 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SAX 6905</td>
<td>Saxophone</td>
<td>4 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SAX 6906</td>
<td>Saxophone</td>
<td>4 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
<tr>
<td>SBSS 5800A</td>
<td>String Bass</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>SBSS 5800B</td>
<td>String Bass</td>
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<td>SBSS 6901</td>
<td>String Bass</td>
<td>2 s.h.</td>
<td>Private Music Lessons.</td>
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<td>SBSS 6902</td>
<td>String Bass</td>
<td>2 s.h.</td>
<td>Private Music Lessons.</td>
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<td>SBSS 6903</td>
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<td>3 s.h.</td>
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<td>String Bass</td>
<td>3 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>SBSS 6905</td>
<td>String Bass</td>
<td>4 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>SBSS 6906</td>
<td>String Bass</td>
<td>4 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>TROM 5800A</td>
<td>Trombone</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>TROM 5800B</td>
<td>Trombone</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>TROM 6901</td>
<td>Trombone</td>
<td>2 s.h.</td>
<td>Private Music Lessons.</td>
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<td>TROM 6902</td>
<td>Trombone</td>
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<td>Private Music Lessons.</td>
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</tr>
<tr>
<td>TRUM 5800A</td>
<td>Trumpet</td>
<td>1 s.h.</td>
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</tr>
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<td>1 s.h.</td>
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<td>4 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>TRUM 6906</td>
<td>Trumpet</td>
<td>4 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>TUBA 5800A</td>
<td>Tuba</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>TUBA 5800B</td>
<td>Tuba</td>
<td>1 s.h.</td>
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<td>TUBA 6901</td>
<td>Tuba</td>
<td>2 s.h.</td>
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<td>4 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>VIOL 5800A</td>
<td>Viola</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
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<tr>
<td>VIOL 5800B</td>
<td>Viola</td>
<td>1 s.h.</td>
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<tr>
<td>VIOL 6901</td>
<td>Viola</td>
<td>2 s.h.</td>
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<tr>
<td>VIOL 6902</td>
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<tr>
<td>VION 5800A</td>
<td>Violin</td>
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<td>VION 5800B</td>
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<td>VION 6901</td>
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<tr>
<td>VOIC 5800A</td>
<td>Voice</td>
<td>1 s.h.</td>
<td>Private Music Lessons.</td>
</tr>
</tbody>
</table>
Students will also take applied lessons on an instrument and in composition. Composition (6936), Jazz History (6946), and Research in Music (6960).

In Jazz Studies, students will take core courses in Jazz Theory (6935), Jazz (Italian, French, or German), foreign languages or else take two semesters each of two different languages.

Recital. Candidates in Voice Performance are expected to be proficient in two vocal, instrumental, conducting), History and Literature, Theory and Composition, Music Education, and Jazz Studies. Our students work closely with faculty who are alumni of prestigious national and international doctoral programs and are accomplished performers, composers, recording artists, and active scholars. This ensures an individualized graduate education. In turn, alumni of our graduate programs pursue doctoral studies and careers as performers, composers, and educators at all levels.

Successful completion of 30 semester hours and all requirements specific to each degree.

Upon admission and before the start of the first semester of graduate study, each student must take diagnostic examinations in music history and music theory. The history diagnostic test is intended to assess students’ critical reading, thinking, and writing in advance of 6977 and 6960. Students who score at least 70% on the theory diagnostic exam will test out of the remedial 6921 Graduate Analysis I. Failure to take the diagnostic examinations will result in the addition of 6921 Graduate Analysis I. Thesis students who have completed all requirements but have not defended the thesis are required to register for one hour of 6991, if they expect to receive advisor or committee assistance or utilize University services (e.g., library, computer, parking, and so forth).

Students must maintain a minimum grade-point average of at least 3.0 (on a 4.0 scale) to remain in “good standing.” Any course grade of D or F must be repeated and passed with a grade of A or B and no more than 6 semester hours of coursework with a grade of C may count toward the minimum graduation hour requirements.

Music Education

Program Director
Dr. Joseph Carucci
Bliss Hall 3010
jwcarucci@ysu.edu
330) 941-1439

Program Description

The Dana School of Music offers the Master of Music degree in Performance (vocal, instrumental, conducting), History and Literature, Theory and Composition, Music Education, and Jazz Studies. Our students work closely with faculty who are alumni of prestigious national and international doctoral programs and are accomplished performers, composers, recording artists, and active scholars. This ensures an individualized graduate education. In turn, alumni of our graduate programs pursue doctoral studies and careers as performers, composers, and educators at all levels.

Students in Performance, Music History and Literature, Music Theory and Composition, and Music Education will take core courses in Philosophies of Music (6977), Graduate Analysis II (6922), and Research in Music (6960).

In performance degrees, students will also take applied lessons, ensembles, and two seminar electives. Performance degrees will culminate in a 50-minute recital. Candidates in Voice Performance are expected to be proficient in two foreign languages or else take two semesters each of two different languages (Italian, French, or German).

In Jazz Studies, students will take core courses in Jazz Theory (6935), Jazz Composition (6936), Jazz History (6946), and Research in Music (6960). Students will also take applied lessons on an instrument and in composition as well as small and large ensembles. The degree requires two 50-minute recitals.

In Music History and Literature and Music Theory and Composition degrees, students will take seminar electives as well as Thesis I (6990) and Thesis II (6991). A thesis and an oral defense of the thesis are required. Music Education degree students may elect either the thesis or a significant research project. Thesis students who have completed all requirements but have not defended the thesis are required to register for one hour of 6991, if they expect to receive advisor or committee assistance or utilize University services (e.g., library, computer, parking, and so forth).

Students must maintain a minimum grade-point average of at least 3.0 (on a 4.0 scale) to remain in “good standing.” Any course grade of D or F must be repeated and passed with a grade of A or B and no more than 6 semester hours of coursework with a grade of C may count toward the minimum graduation hour requirements.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
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<tbody>
<tr>
<td>MUED 5814</td>
<td>Selected Topics in Music Education</td>
<td></td>
</tr>
<tr>
<td>MUED 5841</td>
<td>Music Workshop</td>
<td></td>
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<tr>
<td>MUED 6970</td>
<td>Foundations of Music Education</td>
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<td>MUED 6972</td>
<td>Seminar in Music Education</td>
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<tr>
<td>MUED 6978</td>
<td>Contemporary Trends in Music Education</td>
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<tr>
<td>MUED 6979</td>
<td>Workshop in Music Education</td>
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<tr>
<td>MUED 6981</td>
<td>Elementary School Music Practicum</td>
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<tr>
<td>MUED 6982</td>
<td>Secondary School Music Practicum</td>
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<tr>
<td>MUED 6973</td>
<td>Research Methods and Materials in Music Education</td>
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</tr>
</tbody>
</table>

Seminars outside of area

*Seminars outside of area may include music applied classes, ensembles or thesis.

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUTC 6913</td>
<td>Pedagogy of Theory</td>
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<tr>
<td>MUTC 5880</td>
<td>Vocal Pedagogy</td>
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<tr>
<td>MUTC 5858</td>
<td>Piano Pedagogy</td>
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<tr>
<td>MUTC 6950</td>
<td>Conducting Pedagogy</td>
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</tr>
<tr>
<td>MUTC 5833</td>
<td>Theory Seminar</td>
<td></td>
</tr>
<tr>
<td>MUTC 6935</td>
<td>Jazz Theory</td>
<td></td>
</tr>
<tr>
<td>MUTC 6936</td>
<td>Jazz Composition</td>
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</tr>
<tr>
<td>MUHL 6943</td>
<td>Seminar in Musicology</td>
<td></td>
</tr>
<tr>
<td>MUHL 6946</td>
<td>Selected Topics in Jazz History</td>
<td></td>
</tr>
<tr>
<td>MUHL 6945</td>
<td>Selected Topics in Music Literature</td>
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<tr>
<td>MUHL 6944</td>
<td>Seminar in Symphonic Literature</td>
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</tr>
<tr>
<td>MUED 6992</td>
<td>Independent Projects in Music</td>
<td></td>
</tr>
<tr>
<td>MUHL 6990</td>
<td>Thesis 1</td>
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</tr>
</tbody>
</table>

Music Education majors may elect the thesis option or must submit a capstone research project as a substitute for the thesis.
Music Education majors may elect the thesis option or must submit a capstone research project as a substitute for the thesis.

Learning Outcomes
1. Students will demonstrate the ability to analyze and work critically with historical information (MUHL). Assessment: MUHL course-based project.
2. Students will demonstrate an understanding of specialized knowledge of at least one aspect of Music Theory (MUTC). Assessment: Final exam in 6922 Graduate Analysis II.
3. Students will demonstrate the ability to write in a scholarly manner about their area of specialization within music. Assessment: FINAL PROJECT IN 6960 or THESIS DEFENSE

Admission Requirements
Applicants for admission to graduate study in the Master of Music degree must present a baccalaureate degree in music from an accredited college or university. Admission requires a cumulative undergraduate grade point average of at least 2.7 (on a 4.0 scale).

A representative writing sample is required.

Music Performance
Program Director
Dr. Joseph Carucci
Bliss Hall 3010
jwcarucci@ysu.edu
330) 941-1439

Program Description
The Dana School of Music offers the Master of Music degree in Performance (vocal, instrumental, conducting), History and Literature, Theory and Composition, Music Education, and Jazz Studies. Our students work closely with faculty who are alumni of prestigious national and international doctoral programs and are accomplished performers, composers, recording artists, and active scholars. This ensures an individualized graduate education. In turn, alumni of our graduate programs pursue doctoral studies and careers as performers, composers, and educators at all levels.

Successful completion of 30 semester hours and all requirements specific to each degree.

Upon admission and before the start of the first semester of graduate study, each student must take a diagnostic examination in music history and music theory. Students who score at least 70% on the theory diagnostic exam will test out of the remedial 6921 Graduate Analysis I. The history diagnostic test is intended to assess students' critical reading, thinking, and writing in advance of 6977 and 6960. Failure to take the diagnostic examinations will result in the addition of 6921 Graduate Analysis I and one music history elective within the degree.

Students in Performance, Music History and Literature, Music Theory and Composition, and Music Education will take core courses in Philosophies of Music (6977), Graduate Analysis II (6922), and Research in Music (6960).

In performance degrees, students will also take applied lessons, ensembles, and two seminar electives. Performance degrees will culminate in a recital of 50 minutes of music. Candidates in Voice Performance are expected to be proficient in two foreign languages or else take two semesters each of two different languages (Italian, French, or German).

In Jazz Studies, students will take core courses in Jazz Theory (6935), Jazz Composition (6936), Jazz History (6946), and Research in Music (6960). Students will also take applied lessons on an instrument and in composition as well as small and large ensembles. The degree requires two 50-minute recitals.

In Music History and Literature and Music Theory and Composition degrees, students will take seminar electives as well as Thesis I (6990) and Thesis II (6991). A thesis and an oral defense of the thesis are required. Music Education degree students may elect either the thesis or a significant research project. Thesis students who have completed all requirements but have not defended the thesis are required to register for one hour of 6991, if they expect to receive advisor or committee assistance or utilize University services (e.g., library, computer, parking, and so forth).

Students must maintain a minimum grade-point average of at least 3.0 (on a 4.0 scale) to remain in “good standing.” Any course grade of D or F must be repeated and passed with a grade of A or B and no more than 6 semester hours of coursework with a grade of C may count toward the minimum graduation hour requirements.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>MUHL 6991</td>
<td>Thesis 2</td>
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<tr>
<td>MUTC 6922</td>
<td>Graduate Analysis 2</td>
<td>9</td>
</tr>
<tr>
<td>MUHL 6977</td>
<td>Philosophies of Music</td>
<td></td>
</tr>
<tr>
<td>MUHL 6960</td>
<td>Research in Music</td>
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<table>
<thead>
<tr>
<th>Applied Lessons</th>
<th>Title</th>
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<tbody>
<tr>
<td>Applied Lessons</td>
<td>Applied lessons are offered on: Bassoon (BASS), Baritone Horn (BHFN), Cello (CELL), Clarinet (CLAR), Flute (FLUT), French Horn (FHRN), Guitar (GUIT), Oboe (OBOE), Organ (ORGN), Percussion (PERC), Piano (PIAN), Saxophone (SAX), String Bass (SBSS), Trombone (TROM), Trumpet (TRUM), Tuba, Viola (VIOL), Violin (VION), Voice (VOIC), as well as in Conducting (COND).</td>
<td>12</td>
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<tr>
<td>MUTC 6921</td>
<td>Graduate Analysis 1</td>
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<table>
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<tr>
<th>Seminar Electives</th>
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<tr>
<td>MUTC 5833</td>
<td>Theory Seminar</td>
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<td>MUTC 6913</td>
<td>Pedagogy of Theory</td>
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<tr>
<td>MUTC 6935</td>
<td>Jazz Theory</td>
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<tr>
<td>MUTC 6936</td>
<td>Jazz Composition</td>
<td></td>
</tr>
<tr>
<td>MUHL 6943</td>
<td>Seminar in Musicology</td>
<td></td>
</tr>
<tr>
<td>MUHL 6945</td>
<td>Selected Topics in Music Literature</td>
<td></td>
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<tr>
<td>MUHL 6946</td>
<td>Selected Topics in Jazz History</td>
<td></td>
</tr>
<tr>
<td>MUHL 6944</td>
<td>Seminar in Symphonic Literature</td>
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</tr>
<tr>
<td>MUED 6992</td>
<td>Independent Projects in Music</td>
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</tr>
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<table>
<thead>
<tr>
<th>Ensembles</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>MUEN 0002</td>
<td>Dana Chorale</td>
<td></td>
</tr>
<tr>
<td>MUEN 0004</td>
<td>University Chorus</td>
<td></td>
</tr>
<tr>
<td>MUEN 0005</td>
<td>Concert Band</td>
<td></td>
</tr>
<tr>
<td>MUEN 0007</td>
<td>Wind Ensemble</td>
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</tr>
</tbody>
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MUEN 0008 Symphony Orchestra
MUEN 0009 Percussion Ensemble
MUEN 0010 String Ensemble
MUEN 0011 Men's Chorus
MUEN 0012 Dana Opera Ensemble
MUEN 0013 Contemporary Ensemble
MUEN 0014 Women's Chorus
MUEN 0015 Early Music Ensemble
MUEN 0016 Woodwind Ensemble
MUEN 0017 Horn Choir
MUEN 0018 Trombone Ensemble
MUEN 0020 Tuba Ensemble
MUEN 0021 Trumpet Ensemble
MUEN 0023 Jazz Ensemble
MUEN 0024 Composer's Ensemble
MUEN 0025 Gospel Choir
MUEN 0026 Chamber Orchestra
MUEN 0028 Chamber Winds
MUEN 0029 Guitar Ensemble
MUEN 0030 Jazz Combo
MUEN 0031 Chamber Music
MUEN 0035 Saxophone Quartet
MUEN 0051 Piano Chamber

Music Theory and Composition
Program Director
Dr. Joseph Carucci
Bliss Hall 3010
jwcarucci@ysu.edu
330) 941-1439

Program Description
The Dana School of Music offers the Master of Music degree in Performance (vocal, instrumental, conducting), History and Literature, Theory and Composition, Music Education, and Jazz Studies. Our students work closely with faculty who are alumni of prestigious national and international doctoral programs and are accomplished performers, composers, recording artists, and active scholars. This ensures an individualized graduate education. In turn, alumni of our graduate programs pursue doctoral studies and careers as performers, composers, and educators at all levels.

Successful completion of 30 semester hours and all requirements specific to each degree.

Upon admission and before the start of the first semester of graduate study, each student must take a diagnostic examination in music history and music theory. Students who score at least 70% on the theory diagnostic exam will test out of the remedial 6921 Graduate Analysis I. The history diagnostic test is intended to assess students' critical reading, thinking, and writing in advance of 6977 Philosophies of Music and 6960 Research in Music. Failure to take the diagnostic examinations will result in the addition of 6921 Graduate Analysis I and one music history elective within the degree.

Students will take core courses in Philosophies of Music (6977), Graduate Analysis II (6922), and Research in Music (6960), 15 s.h. of seminar electives (at least 6 s.h. in MUHL), as well as Thesis I (6990) and Thesis II (6991). A thesis and an oral defense of the thesis are required. Thesis students who have completed all requirements but have not defended the thesis are required to register for one hour of 6991, if they expect to receive advisor or committee assistance or utilize University services (e.g., library, computer, parking, and so forth).

Students must maintain a minimum grade-point average of at least 3.0 (on a 4.0 scale) to remain in “good standing.” Any course grade of D or F must be repeated and passed with a grade of A or B and no more than 6 semester hours of coursework with a grade of C may count toward the minimum graduation hour requirements.

Learning Outcomes
1. Students will demonstrate the ability to analyze and work critically with historical information (MUHL). Assessment: MUHL course-based project
2. Students will demonstrate an understanding of specialized knowledge of at least one aspect of Music Theory (MUTC). Assessment: Final exam in 6922 Graduate Analysis II
3. Students will demonstrate the ability to write in a scholarly manner about their area of specialization within music. Assessment: Final Project in 6960 Research in Music
4. Students will demonstrate proficiency in their applied area. Assessment: Second year RECITAL of 50 minutes of music.

Admission Requirements
Applicants for admission to graduate study in the Master of Music degree must present a baccalaureate degree in music from an accredited college or university. Admission requires a cumulative undergraduate grade point average of at least 2.7 (on a 4.0 scale).

Auditions are required for all performance degrees.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MUTC 6922</td>
<td>Graduate Analysis 2</td>
<td>9</td>
</tr>
<tr>
<td>MUHL 6977</td>
<td>Philosophies of Music</td>
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<tr>
<td>MUHL 6960</td>
<td>Research in Music</td>
<td>6</td>
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<tr>
<td>Seminar electives</td>
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<tr>
<td>Thesis</td>
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<td>6</td>
</tr>
<tr>
<td>MUHL 6990</td>
<td>Thesis 1 (Composition Thesis will culminate in a composition or a body of compositions, accompanied by explanatory notes and a performance and/or recording.)</td>
<td></td>
</tr>
</tbody>
</table>
Learning Outcomes

1. Students will demonstrate the ability to analyze and work critically with historical information (MUHL). Assessment: MUHL course-based project

2. Students will demonstrate an understanding of specialized knowledge of at least one aspect of Music Theory (MUTC). Assessment: Final exam in MUTC 6922 Graduate Analysis II

3. Students will demonstrate the ability to write in a scholarly manner about their area of specialization within music. Assessment: Project MUHL 6960 Research in Music

4. Students will demonstrate research skills and techniques through the creation of an original scholarly project. Assessment: Thesis

Admission Requirements

Applicants for admission to graduate study in the Master of Music degree must present a baccalaureate degree in music from an accredited college or university. Admission requires a cumulative undergraduate grade point average of at least 2.7 (on a 4.0 scale).

Evidence of analytical activities or the sound files and scores for three original compositions are required for entry to Music Theory and Composition degree.
Students must maintain a minimum grade-point average of at least 3.0 (on a 4.0 scale) to remain in "good standing." Any course grade of D or F must be repeated and passed with a grade of A or B and no more than 6 semester hours of coursework with a grade of C may count toward the minimum graduation hour requirements.

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<tr>
<td>MUHL 6960</td>
<td>Research in Music</td>
<td>12</td>
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<tr>
<td>MUTC 6935</td>
<td>Jazz Theory</td>
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<td>MUTC 6936</td>
<td>Jazz Composition</td>
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<tr>
<td>MUHL 6946</td>
<td>Selected Topics in Jazz History</td>
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<tr>
<td>Applied Lessons</td>
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<td>13</td>
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<tr>
<td>Ensembles</td>
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<tr>
<td>Total Semester Hours</td>
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<td>30</td>
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</table>

**Core Requirements**

Students should take 6901, 6902 and 6903 on instrument or voice. Applied lessons are offered on: Bassoon (BASS), Baritone Horn (BHFN), Cello (CELL), Clarinet (CLAR), Flute (FLUT), French Horn (FHRN), Guitar (GUIT), Oboe (OBDOE), Organ (ORGN), Percussion (PERC), Piano (PIAN), Saxophone (SAX), String Bass (SBSS), Trombone (TROM), Trumpet (TRUM), Tuba, Viola (VIOL), Violin (VION), Voice (VOIC). For example:

- PIAN 6901 Piano
- PIAN 6902 Piano
- PIAN 6903 Piano
- MCMP 6903 Advanced Composition
- MCMP 6904 Advanced Composition

**Applied Lessons**

Students should take two semesters each of MUEN 0023 and MUEN 0030; the last ensemble should be either MUEN 0023 or MUEN 0030

- MUEN 0023 Jazz Ensemble
- MUEN 0030 Jazz Combo

Music History and Literature

Admission to this graduate program has been suspended. Applications to the program are not being accepted at this time. Please see information on YSU's other areas in Master of Music or contact Dr. Joseph Carucci at jwcarucci@ysu.edu with inquiries.

Program Description

The Dana School of Music offers the Master of Music degree in Performance (vocal, instrumental, conducting), History and Literature, Theory and Composition, Music Education, and Jazz Studies. Our students work closely with faculty who are alumni of prestigious national and international doctoral programs and are accomplished performers, composers, recording artists, and active scholars. This ensures an individualized graduate education. In turn, alumni of our graduate programs pursue doctoral studies and careers as performers, composers, and educators at all levels.

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Students will take core courses in Philosophies of Music (6977), Graduate Analysis II (6922), and Research in Music (6960), 15 s.h. of seminar electives (at least 6 s.h. in MUHL), as well as Thesis I (6990) and Thesis II (6991). A thesis and an oral defense of the thesis are required. Thesis students who have completed all requirements but have not defended the thesis are required to register for one hour of 6991, if they expect to receive advisor or committee assistance or utilize University services (e.g., library, computer, parking, and so forth).

Students must maintain a minimum grade-point average of at least 3.0 (on a 4.0 scale) to remain in "good standing." Any course grade of D or F must be repeated and passed with a grade of A or B and no more than 6 semester hours of coursework with a grade of C may count toward the minimum graduation hour requirements.

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<td>Research in Music</td>
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<td>MUTC 6922</td>
<td>Graduate Analysis 2</td>
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<tr>
<td>Seminar electives</td>
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<tr>
<td>Thesis</td>
<td></td>
<td>6</td>
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</tbody>
</table>
MUHL 6991  Thesis 2
MUHL 6990  Thesis 1

Total Semester Hours  30

<table>
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<tr>
<th>COURSE</th>
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<th>S.H.</th>
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<tbody>
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<td>MUTC 6921</td>
<td>Graduate Analysis 1</td>
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<tr>
<td>MUTC 5833</td>
<td>Theory Seminar</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 6913</td>
<td>Pedagogy of Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUTC 6935</td>
<td>Jazz Theory</td>
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<td>MUHL 6946</td>
<td>Selected Topics in Jazz History</td>
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<tr>
<td>MUHL 6944</td>
<td>Seminar in Symphonic Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUHL 6945</td>
<td>Selected Topics in Music Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUED 6992</td>
<td>Independent Projects in Music</td>
<td>1-4</td>
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</table>

Learning Outcomes

1. Students will demonstrate the ability to analyze and work critically with historical information (MUHL). Assessment: MUHL course-based project
2. Students will demonstrate an understanding of specialized knowledge of at least one aspect of Music Theory (MUTC). Assessment: Final exam in MUTC 6922 Graduate Analysis II
3. Students will demonstrate the ability to write in a scholarly manner about their area of specialization within music. Assessment: Final Project in MUHL 6960
4. Students will demonstrate research skills and techniques through the creation of an original scholarly project. Assessment: Thesis

Admission Requirements

Applicants for admission to graduate study in the Master of Music degree must present a baccalaureate degree in music from an accredited college or university. Admission requires a cumulative undergraduate grade point average of at least 2.7 (on a 4.0 scale).

A representative writing sample is required.

Master of Public Health

Program Directors
Dr. Nicolette Powe, YSU Program Coordinator
1104 Cushwa Hall
(330) 941-1895
npowe@ysu.edu (ktrobinson@ysu.edu)

Dr. Amy Lee, CEOMPH Program Director
Consortium of Eastern Ohio Master of Public Health
NEOMED
(330) 325-6179
afl@neomed.edu

Dr. Jeanine Mincher, Nutrition Graduate Program Director
(330) 941-3346
jlmincher@ysu.edu (afl@neomed.edu)

Program Description

The Master of Public Health program at Youngstown State University is part of Consortium of Eastern Ohio Master of Public Health (CEOMPH). CEOMPH is a multidisciplinary, interdepartmental, and interinstitutional program that provides opportunities for graduate studies in public health. It is housed in the

Bitonte College of Health and Human Services. Although the M.P.H. degree is awarded by Youngstown State University, the M.P.H. program is consortium-based. It draws its faculty from several departments at The University of Akron, Cleveland State University, the Northeastern Ohio Medical University (NEOMED), Ohio University, and Youngstown State University.

The mission of the Consortium of Eastern Ohio Master of Public Health program is to provide accredited public health education designed for the working professional. It does this through a collaborative learning community, drawing on the collective resources of its five member institutions and partnering community agencies. The program strives to produce respected and competent professionals able to improve public health practice, especially in eastern Ohio.

Students take core courses that are delivered through webinar and online teaching each semester.

Unique program features:

- Distance learning (webinar and online)
- Elective courses at any partner university

4+ 1 Bachelor of Science in Applied Science/Master of Public Health Program

The accelerated "4+ 1 + program allows students to earn the Master of Public Health degree in one year after completing their Bachelor’s degree. Undergraduate students can apply for admission into the accelerated program after completing 78 semester hours with a GPA of 3.3 or higher. While in the accelerated program, students must maintain a 3.0 GPA. Students can take a maximum of twelve semester hours of graduate work that can count both towards the Bachelor’s degree and Master of Public Health degree.

Nutrition Specialization

Stakeholder interviews have noted the emergence of non-traditional practice settings and an expanding scope of practice expectation required of Registered Dietitian Nutritionists (RDNs). Primary areas of focus will be disease prevention and integrative healthcare. With these focus areas, there will be a need for professionals who have training and preparation in leadership, inter-professional practice and a greater understanding of the community and cultural ecosystems of patients and clients. https://www.eatrightpro.org/

Future Model programs offered at the graduate level will provide the necessary coursework and supervised experiential learning to meet the competency based education requirements set forth by the accrediting body. Individuals completing the requirements are eligible to take the CDR RDN credentialing examination.

Admission Requirements

In addition to the minimum College of Graduate Studies admission requirements, applicants must hold a bachelor’s degree from an accredited college or university, with a minimum GPA of 2.75. Applicants must have successfully completed a college-level mathematics or statistics course, and a college social science or natural science course. If the applicant has a GPA lower than 3.0, then an acceptable GRE scores within the last five years is also required.

GRE scores may be waived if the applicant has a professional degree (master's or doctorate) in a relevant area or a bachelor’s degree from an accredited U.S. institution with a cumulative GPA of 3.0 or higher. Official results from other equivalent standardized tests used for graduate admissions, also taken within the last five years, may be substituted. These accepted tests are the following: DAT, GMAT, MCAT, and PCAT. Please use institution code #1903 in the designated area of your GRE application form. TOEFL is required from applicants from countries where English is not the language of instruction;
the minimum score must be 550 (paper-based) or 213 (computer-based) or 79-80 with read/speak/listen=17, write=14 (internet-based). Please use the institution code #1903 in the designated area on your TOEFL application form.

Two years of work experience in a relevant field is highly recommended. The applicant must provide two letters of recommendation applicant characteristic ratings from two individuals familiar with the applicant’s academic or professional background. If the applicant has not been involved in an academic institution for two years or more, letters of recommendation or ratings may be submitted by supervisors from his or her place of employment. Applicants should apply through the online portal system at http://mph.neomed.edu/admissions

Graduate Faculty
Guang-Hwa (Andy) Chang, Ph.D., Professor
Biostatistics

Alan M. Jacobs, Ph.D., Professor
Environmental health sciences in public health

Rachael J. Pohle-Krauza, Ph.D., Professor
Nutrition

Nicolette Powe, Dr.P.H., Assistant Professor
Health equality; chronic diseases; cancer prevention; healthy lifestyles

Degree Requirements
The curriculum consists of eight core courses, directed elective, required capstone project, and electives. In addition, a portfolio, and an exit presentation are required. Students should plan on taking the core courses as a cohort. Core courses will be offered on Saturdays, one course in the morning and one in the afternoon. Students may take core courses in any one of the distance learning classrooms at the partner universities. Distance learning will involve interactive electronic technology and web-based learning. Students may take electives at any time in the program, and may select an elective from any of the partner universities from a list of approved electives.

If the student is interested in an elective that is not on the approved list, an Elective Approval form must be submitted, along with the course syllabus, for review and approval by the CEOMPH Curriculum Committee:

CEOMPH Curriculum Committee
Consortium of Eastern Ohio Master of Public Health
NEOMED
4209 State Route 44
PO Box 95
Rootstown, Ohio 44272

Students will be assigned an advisor upon entering the program. The advisor will offer guidance on choosing electives appropriate to student career goals and interest. Students must maintain a minimum GPA of 3.0. The program requires 42 semester hours to comply with accreditation criteria.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MPH 6901</td>
<td>Public Health Concepts</td>
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<tr>
<td>MPH 6902</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6903</td>
<td>Epidemiology in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6904</td>
<td>Biostatistics in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6905</td>
<td>Health Services Administration in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6906</td>
<td>Policy and Environmental Health Sciences in Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Competencies
- Use basic techniques and statistical software to access, evaluate, and interpret health data.
- Apply analytic reasoning and methods.
- Interpret scientific and statistical results, including the strengths and limitations of scientific articles.
- Explain characteristics, strengths and limitations of epidemiological study design types.
- Apply behavioral health theories/models in developing community health promotion and intervention programs, and applications for research funding.
- Apply principles of strategic planning to public health, including continuous quality improvement, leadership, teamwork, systems thinking, and social marketing.
- Assess associations found between environmental hazards and health outcomes to influence environmental policies designed to protect populations.
- Apply principles of program planning, development, implementation, management, and evaluation in organizational and community initiatives.
- Use collaborative strategies in the design of policies, interventions, and programs.
- Communicate public health information to lay and professional audiences, using appropriate channels and technologies and with linguistic and cultural proficiency.
- Demonstrate ability to use credible evidence and rationale to guide well-reasoned decisions, proposals, and attitudes.
- Use individual, team and organizational learning opportunities for personal and professional development.
Generalist Competencies

- Prepare proposals for funding from external sources.
- Demonstrate the ability to design, implement and execute a research protocol.
- Consider the role of cultural and social factors in the planning and delivery of public health services and interventions.
- Demonstrate critical evaluation of ethical values, theories, and principles that guide public health inquiry and decision-making.
- Analyze the public health information infrastructure used to collect, process, maintain, and disseminate data in order to allow for decision-making at an administrative level.
- Apply theory and strategy-based communication principles adapted to different contexts.
- Explain how biological, chemical, and physical agents affect human health.

Nutrition Learning Outcomes

- Applies foundational sciences to food and nutrition knowledge to meet the needs of individuals, groups, and organizations.
- Applies and integrates client/patient-centered principles and competent nutrition and dietetics practice to ensure positive outcomes.
- Applies food systems principles and management skills to ensure safe and efficient delivery of food and water.
- Demonstrates leadership, business and management principles to guide practice and achieve operational goals.
- Applies community and population nutrition health theories when providing support to community or population nutrition programs.
- Integrates evidence-informed practice, research principles and critical thinking into practice.
- Demonstrates professional behaviors and effective communication in all nutrition and dietetics interactions.

Graduate Courses

**MPH 6901** Public Health Concepts 3 s.h.
Organizational structure, history, law, ethics, essential services, global problems, and future of public health.
**Prereq.:** Graduate standing, permission of course director required for non-MPH students.

**MPH 6902** Social and Behavioral Sciences in Public Health 3 s.h.
Theories of health education and promotion; intervention (communication, collaboration, and strategies): sociocultural, diversity, and regional issues as pertains to public health.
**Prereq.:** Graduate standing, permission of course director required for non-MPH students.

**MPH 6903** Epidemiology in Public Health 3 s.h.
Epidemiological methods, including study design, legal/ethical aspects, and Epi Info, applications of methods including screening, disease surveillance, outbreak investigation, and community needs assessment. Student presentations to focus on special topics such as infectious diseases, chronic conditions, etc.
**Prereq.:** Graduate standing, permission of course director required for non-MPH students.

**MPH 6904** Biostatistics in Public Health 3 s.h.
Principles of biostatistics in the context of multiple public health applications, Epi Info, SAS, and JMP statistical packages to be used.
**Prereq.:** Graduate standing, permission of course director required for non-MPH students.

**MPH 6905** Health Services Administration in Public Health 3 s.h.
Management principles, including personnel administration, budgeting, financing, and continuous quality improvement as pertains to public health. Planning and evaluation principles, grant writing, public health economics, public health policy, and data sources.
**Prereq.:** Graduate standing, permission of course director required for non-MPH students.

**MPH 6906** Policy and Environmental Health Sciences in Public Health 3 s.h.
This course provides an overview of public health policy, policy development, and advocacy. Environmental health issues serve as an example of the intersection between policy and science. Environmental health topics include air/water quality, food hygiene, sanitation, municipal/infectious/hazardous waste, vector-borne disease, occupational health, legal/risk issues, One Health, and global issues.
**Prereq.:** Graduate standing, permission of course director required for non-MPH students.

**MPH 6907** Grant Writing in Public Health Practice 3 s.h.
Methods and techniques for writing and managing grant proposals to support public health programs.
**Prereq.:** Permission of instructor required for non-MPH students.

**MPH 6908** Public Health Practice and Issues 3 s.h.
In an organizational setting, the following topics will be explored: informatics and communication, diversity and cultural proficiency, ethics, and biology. These topics are emerging public health issues, which will be applied in a practice setting.
**Prereq.:** Graduate standing and MPH 6901.

**MPH 6909** Public Health Research and Evaluation 3 s.h.
Students will critically review journal articles, create research questions, conduct comprehensive literature reviews, employ quantitative and qualitative research methods that fall within institutional review board parameters, develop and execute a data analysis plan. Culmination of coursework will be individual oral presentation and mock journal article.
**Prereq.:** Graduate standing; MPH 6903 and MPH 6904.

**MPH 6904** Individual Investigation in Public Health 1-3 s.h.
Intensive research or readings on selected topic or problem to be selected in consultation with MPH graduate faculty.
**Prereq.:** MPH 6901 and MPH 6904.

**MPH 6905** Special Topics 1-5 s.h.
Specialized sections selected by faculty will focus on specific topics of current interest to public health practice. May be repeated with different topics up to 15 semester hours.
**Prereq.:** Graduate standing, permission of program director required for non-MPH students.

**MPH 6906** MPH Practicum 3 s.h.
Student is teamed with a faculty advisor and community preceptor(s) to work on a meaningful public health issue. For students who desire additional field experience. students.
**Prereq.:** Graduate standing, permission of program director required for non-MPH.

**MPH 6907** MPH Capstone Project 3-6 s.h.
A faculty advisor and community preceptor(s) are teamed with each student who will develop a paper (i.e., grant, study, proposal) on a meaningful public health issue learned from the core MPH courses.
**Prereq.:** Graduate standing; MPH 6901, MPH 6902, MPH 6903, MPH 6904, MPH 6905, and MPH 6906.

**MPH 6908** Capstone Project I 3 s.h.
In-depth assessment of public health competencies and preparation for the culminating community experience in MPH Capstone II.
**Prereq.:** graduate standing; MPH 6901, MPH 6902, MPH 6903, MPH 6904, MPH 6905, and MPH 6906.
Applicants must submit the following items to Graduate Admissions:

Admission Requirements

- Regular admission requires a cumulative undergraduate grade point average of at least 3.0 (on a 4.0 scale).
- Applicants with a cumulative undergraduate grade point average of 2.7 to 2.99 may be admitted provisionally.
- Applicants with a cumulative undergraduate grade point average of less than 2.7 will be required to submit an official report of the Graduate Record Examination (General Test) scores completed within the past five years if the applicant’s cumulative grade point average is less than 2.7.
- An official report of the Graduate Record Examination (General Test) scores completed within the past five years if the applicant’s cumulative grade point average is less than 2.7.

Program Description

The Master of Respiratory Care program has been designed specifically for respiratory professionals who desire to enhance their career options in educational and/or leadership roles within the respiratory care profession.

Admission Requirements

- Regular admission requires a cumulative undergraduate grade point average of at least 3.0 (on a 4.0 scale).
- Applicants with a cumulative undergraduate grade point average of 2.7 to 2.99 may be admitted provisionally.
- Applicants with a cumulative undergraduate grade point average of less than 2.7 will be required to submit an official report of the Graduate Record Examination (General Test) scores completed within the past five years if the applicant’s cumulative grade point average is less than 2.7.

Program Director

Dr. Kelly L. Colwell EdD, MRC, RRT
(330) 941-2631
kicolwell@ysu.edu

Degree Requirements

Required Core Courses 27 sh

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>RESC 6900</td>
<td>The Respiratory Care Profession</td>
<td>3</td>
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<tr>
<td>RESC 6906</td>
<td>Respiratory Care Seminar</td>
<td>3</td>
</tr>
<tr>
<td>RESC 6908</td>
<td>Leadership Development in Respiratory Care</td>
<td>3</td>
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<tr>
<td>RESC 6910</td>
<td>Competency Assessment in Respiratory Care</td>
<td>3</td>
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<tr>
<td>RESC 6915</td>
<td>Education and Accreditation in Respiratory Care</td>
<td>3</td>
</tr>
<tr>
<td>RESC 6920</td>
<td>Technology Applications for Health and Human Services</td>
<td>3</td>
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<tr>
<td>RESC 6950</td>
<td>Respiratory Care Research</td>
<td>3</td>
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<tr>
<td>CJFS 6942</td>
<td>Research and Statistics in Health and Human Services</td>
<td>3</td>
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Recommended Electives 3 sh

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>RESC 6922</td>
<td>Special Topics in Respiratory Care</td>
<td>1-3</td>
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<tr>
<td>RESC 6930</td>
<td>Managing Respiratory Services</td>
<td>3</td>
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<tr>
<td>HHS 6922</td>
<td>Planning and Fiscal Management</td>
<td>4</td>
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<tr>
<td>HHS 6958</td>
<td>Health Services Issues</td>
<td>3</td>
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<tr>
<td>AHLT 5807</td>
<td>Epidemiology</td>
<td>3</td>
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<tr>
<td>AHLT 5816</td>
<td>Environmental Regulations</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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Total Degree Hours 30 sh

Combined Bachelors/Masters Program

Highly qualified undergraduate students can apply for admission into the combined “4+1” Bachelors/Masters program for the Master of Respiratory Care. See the description of the “4+1” program (http://catalog.ysu.edu/undergraduate/colleges-programs/college-health-human-services/department-health-professions/bs-respiratory-care/#curriculumsheettext) in the undergraduate catalog.

Learning Outcomes

- Upon completion of the program, graduates will demonstrate the ability to comprehend, prepare, apply, and evaluate evidence based research related to respiratory care.
- Upon completion of the program, graduates will demonstrate proficiency in the skills necessary to utilize current technologies such as, EMR/EHR computer and online charting and data collection systems/services.

Graduate Faculty

Kelly Colwell, Ed.D., Assistant Professor
Distance learning; improving patient and family health literacy through education for management of chronic asthma in children; improving access to healthcare in undeserved areas; improving student awareness of the need for cultural competency to better understand, educate, and treat patients in a multi-diverse patient population.

Amanda Roby, M.H.H.S., Assistant Professor

Technology applications for health care, education and management; student and faculty attributes related to learning; instructional design; distance learning.

Mary Yacovone, M.Ed., Professor, Chair
Adult critical care; cardiopulmonary disease management; distance education curriculum development.

AHLT 5840
Comparative Health Systems

AHLT 5816
Environmental Regulations

AHLT 5840
Comparative Health Systems

AHLT 5807
Epidemiology

COURSE

Recom
and applications appropriate for respiratory management, respiratory education and research.

- Upon completion of the program, graduates will demonstrate leadership skills with applications within the healthcare delivery, education, management and research settings.
- Upon completion of the program, graduates will demonstrate the ability to comprehend, prepare, apply, and evaluate advanced clinical applications.
- Upon completion of the program graduates will be cognizant of cultural differences within diverse patient populations and have an awareness of how those differences may affect the delivery of healthcare and outcomes.

Graduate Courses

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 5850 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. 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 the BSRC, BSRC degree advancement/completion program or Master of respiratory care program, junior standing, or permission of program director.

RESC 6900 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 6906 Respiratory Care Seminar 3 s.h.
Development of a literature review on select current topics culminating in preparation of a scholarly paper consistent with Respiratory Care Journal Conference format and an accompanying PowerPoint presentation. Prereq.: Acceptance in MRC program.

RESC 6908 Leadership Development in Respiratory Care 3 s.h.
Using an evidenced-based perspective, the course will examine nature of leadership in health care organizations with an emphasis on self-understanding and learning to achieve both a theoretical and practical understanding of leadership. Health care managers need to be able to create, foster and manage organizations in which people thrive and perform at their best to achieve organizational excellence. Prereq.: Acceptance in MRC program.

RESC 6910 Competency Assessment in Respiratory Care 3 s.h.
Reviews how clinically-related competencies in respiratory care are measured including available tools. Evaluation of procedures performed by multiple health care practitioners including issues at state/national levels. Importance of assessing cultural competence also included. Prereq.: Acceptance in MRC program.

RESC 6915 Education and Accreditation in Respiratory Care 3 s.h.
Comparison of institutional as well as programmatic accreditation requirements. Prepare students with up-to-date tools/approaches to address major educational accreditation concerns in hospital as well as in post-secondary settings. Students will also compare and contrast the role of accreditation in today’s health care environment. Prereq.: Acceptance in MRC program.

RESC 6920 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.: Acceptance in MRC program.

RESC 6922 Special Topics in Respiratory Care 1-3 s.h.
Special topics for a focused study on problems, issues, or concerns that relate to respiratory care leadership. Prereq.: Acceptance in MRC program.

RESC 6926 Advanced Mechanical Ventilation 3 s.h.
Develops the practitioner’s knowledge of advanced ventilatory theory. The technological aspects and clinical application of dual control modes of ventilation, closed loop and ventilator feedback technology will be discussed. The clinical application of unconventional methods of ventilatory support such as ECMO and carbon dioxide removal, transtracheal gas insufflation and HFV will also be presented. Prereq.: Acceptance in MRC program.

RESC 6930 Managing Respiratory Services 3 s.h.
Presents a comprehensive approach to the delivery of respiratory services across the continuum of care. Management practices in traditional or acute care settings and nontraditional home care, outpatient rehabilitation facilities, sleep laboratories and long-term care institutions will be compared and contrasted. Compliance with national/state accreditation standards will also be presented. Prereq.: Acceptance in MRC program.

RESC 6943 Advanced Monitoring and Therapeutics 3 s.h.
The course is designed to analyze technical features and clinical application of ‘state of the art’ invasive and noninvasive monitoring devices. Specialty therapeutic procedures such as the administration of specialized medical gases and medications will also be explored. The essential elements key to successful integration of new and/or complicated therapeutic modalities and equipment into clinical practice will be highlighted. Prereq.: Acceptance in MRC program.

RESC 6950 Respiratory Care Research 3 s.h.
Provides rationale behind evidence-based medicine and presents key elements of scientific research for one study, lab investigation or clinical trial. Course will culminate in creation of abstract to be submitted for publication in Respiratory Care journal. Prereq.: Acceptance in MRC program.
Master of Science in Applied Behavior Analysis

Interim Program Director
Dr. Kristopher Brown, PsyD, BCBA-D, COBA
330-941-3401
Debartolo Hall Room 337
kjbrown@ysu.edu

Program Description

The Master of Science in Applied Behavior Analysis at Youngstown State University trains students in the theoretical and philosophical foundations of Applied Behavior Analysis (ABA); research on basic and applied problems; and applied techniques in such areas as the treatment of institutionalized populations, work with developmentally disabled, organizational behavior management, as well as a wide range of other applications. ABA is a scientific approach to behavior, and as such, strives to establish evidence-based practices for treatment and education. This approach is consistent with a scientist-practitioner model of graduate training. The purpose of the program will be to train students in behavior analysis through a balanced combination of in-class coursework and practical experience in community settings. As a result of this training, students will be qualified, and strongly encouraged, to become certified as Board Certified Behavior Analysts by the Behavior Analysis Certification Board (www.bacb.com (http://www.bacb.com)).

The required coursework is intended to produce well-rounded professionals capable of becoming board certified and communicating with other professionals in the field, as well as those outside of the field (e.g., nurses, medical doctors, social workers, psychiatrists). Coursework in the program consists of 24 required semester hours in behavior analysis courses and one elective, as well as 12 credits of practical experience and 6 credits of thesis, for a total of 42 credits. As this is a cohort-based program (beginning each fall), no student not part of the cohort will be admitted to classes.

Admission Requirements

Students must have a bachelor’s degree in psychology or a related field from an accredited college or university. Admission requires a cumulative grade point average of at least 3.0 (on a 4.0 scale), as well as a satisfactory score on the Graduate Record Exam (GRE). A combined (GRE-V + GRE-Q) score over 297 is strongly recommended for admission to the program. Applicants must also submit 1) curriculum vita/resume, 2) three letters of recommendation from individuals familiar with the applicant’s academic and professional background, and 3) a letter of intent stating one’s professional goals and how graduate education in behavior analysis will help fulfill said goals. An (optional) personal interview and/or additional information may be requested by the program’s admission committee. Students with minor deficiencies may be accepted with provisional admission at the discretion of the program’s admission committee. See the Graduate Bulletin under Provisional Admission. All applicants must have taken PSYC 2617 (Research Methods and Statistics I) and PSYC 2618 (Research Methods and Statistics II), or equivalent before beginning the program.

Kristopher Brown, PsyD, BCBA-D, COBA
Practice trends in applied behavior analysis; policy issues in applied behavior analysis, organizational behavior management; treatment of autism spectrum disorder (ASD) and other neurodevelopment delays.

Mary Brown, MS, BCBA, COBA

Joe Corpa, MS, BCBA, COBA

Rachael Dobson, MSEd, BCBA, COBA

Stephen R. Flora, Ph.D., Professor
Self-control; behavioral approaches to optimal performance in academics and athletics; learning; behavioral approaches to psychology difficulty; nutritional and drug effects on behavior; gambling

Tricia Vallinger, M.S., BCBA, COBA

Degree Requirements

Students must complete a minimum of 42 semester hours: including eight content courses (24 s.h.), two years of practicum (12 s.h.), and six semester hours of thesis. The two years of practicum experience is critical for training qualified professionals who will succeed in the field and represent the program professionally. The first year will focus on functional analyses and behavioral assessments; the second year will require students to design and implement behavioral interventions. In addition to providing students with the supervised experience required for board certification, these experiences will allow students to put their classroom instruction into real-world practice. Practicum sites will be sufficiently varied to provide students with a significant breadth of experience. For example, if one year involves working with children, then the following year will find students working with senior citizens, or in a business setting, prison, or rehabilitation center. It is imperative that students gain experience with more than one client population during their practicum assignments. In this way, graduates will have a broad experience base, a deeper understanding of the underlying technology, as well as being more readily employable in a wide range of settings.

The master’s thesis requires the students to complete a research project. This will involve surveying the relevant literature, designing a study, collecting data, writing up the results, and discussing the implications of your findings. Students will be strongly encouraged to present their findings at a research conference and develop a manuscript suitable for submission to the appropriate peer-reviewed scientific journal.

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<tr>
<th>COURSE</th>
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<tr>
<td>PSYC 6960</td>
<td>Fundamentals of Applied Behavior Analysis</td>
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<tr>
<td>PSYC 6961</td>
<td>Foundations of Experimental Analysis of Behavior</td>
<td>3</td>
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<tr>
<td>PSYC 6962</td>
<td>Behavior Theory and Philosophy</td>
<td>3</td>
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<tr>
<td>PSYC 6963</td>
<td>Behavioral Interventions and Ethical Considerations</td>
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<tr>
<td>PSYC 6964</td>
<td>Observational Methods &amp; Functional Assessment</td>
<td>3</td>
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<tr>
<td>PSYC 6965</td>
<td>Behavioral Systems Analysis</td>
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<td>PSYC 6966</td>
<td>Research Methods in Applied Behavior Analysis</td>
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<td>PSYC 6968</td>
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<td>PSYC 6969</td>
<td>Practicum 2</td>
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<tr>
<td>PSYC 7060</td>
<td>Thesis</td>
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Total Semester Hours 42

Learning Outcomes

1. Demonstrate effective communication with professionals both in and outside of the field of Applied Behavior Analysis.
3. Evaluate appropriate use of single-subject research designs.
4. Effectively conduct an original research project related to a specific behavior.
Master of Science in Biological Sciences

Program Director
Dr. Michael Butcher
4013 Ward Beecher Science Hall
(330) 941-2195
mtbutcher@ysu.edu

Program Description
Biological Sciences offers a graduate program leading to the M.S. degree. This program provides both a strong foundation in fundamental principles and theories and an understanding of the advanced application of this information within the diverse disciplines of the life sciences. Students prepare, through coursework and faculty-guided original research, to pursue career paths in the professions, academia, research, business, and industry.

The Biological Sciences program includes faculty in:

1. molecular biology, microbiology, and genetics;
2. physiology and anatomy; and
3. environmental biology.

Students may pursue specific areas of specialization within and among these areas, including:

- ecology,
- microbiology,
- molecular biology,
- genetics,
- immunology,
- entomology,
- vertebrate physiology,
- neuroendocrinology,
- neurobiology,
- cell biology, or
- human anatomy.

The program is housed in Ward Beecher Hall. Specialized facilities include an analytical research laboratory housing modern analytical instruments, tissue culture laboratories, an animal facility, laboratories equipped for molecular and cellular research, and an extensive greenhouse facility. The department has exclusive use of two unique outdoor laboratories for field studies: the Youngstown State University Arboretum (a 115-acre reserve) and the Meander Reservoir (a 6,000-acre wildlife refuge and water impoundment), which collectively provide a valuable resource for environmental biology.

Advisement
Each student’s course of study will be devised in consultation with the student’s major advisor and will be approved by the student’s graduate committee. The course of study will be based on the student’s area of specialization, background, and career interests. Students must have their course schedules approved by their major advisor or the graduate director every semester.

Admission Requirements

Application Deadline
Summer and Fall Start – Applications accepted through April 15th
Spring Start – Applications accepted through November 15th

In addition to the minimum College of Graduate Studies admission requirements applicants must have completed:

- at least 20 credit hours of undergraduate Biology courses with at least a 3.0 grade point average,
- plus one semester of Statistics, and
- 20 additional credit hours of coursework in Biology, Chemistry, Physics, Mathematics (pre-calculus or higher), additional Statistics, or upper level courses in Environmental Sciences or Geographic Information Systems.
- An acceptable score for the Graduate Record Examination (GRE, general test only) is required. The Medical College Admission Test (MCAT), Dental Admission Test (DAT), or Pharmacy College Admission Test (PCAT) may be submitted in lieu of the GRE.

Students with deficiencies in these areas should contact the Biology Graduate Director prior to applying for admission.

Graduate Faculty

David K. Asch, Ph.D., Associate Professor
Gene regulation in eukaryotic organisms; carbon catabolite repression in Neurospora crassa

Michael Butcher, Ph.D., Professor
Comparative biomechanics: muscle structure and function with regard to locomotion and adaptive behaviors

Jonathan J. Caguiat, Ph.D., Associate Professor
Industrial microbiology and genetic and molecular biology techniques to characterize selenite and heavy metal resistant bacteria

Susan Ann Clutter, M.F.S., Associate Professor
Crime scene investigation; blood spatter interpretation; forensic toxicology; fingerprint development at fire scenes

Chester R. Cooper, Ph.D., Professor
Molecular biology and microbiology; morphogenesis and virulence of pathogenic fungi; identification of anti-fungal targets

Thomas P. Diggins, Ph.D., Professor
Field-based community and ecosystem ecology of streams and riparian zones

Diana L. Fagan, Ph.D., Professor
Microbiology and immunology; inflammation and regulation of immune responses; stem cell in wound healing

Jill M. Gifford, Ph.D., Associate Professor
Effects of environmental influences on acute inflammatory and chronic neuropathic pain

Carl G. Johnston, Ph.D., Professor
Microbiology; microbial and fungal ecology; interactions within microbial communities

Xiangjia Min, Ph.D., Professor
Bioinformatics; gene and genome annotation and evolutionary analysis; knowledge database development for secretomes and alternatively spliced genes

Ian J. Renne, Ph.D., Associate Professor
Plant community ecology; invasive species; community structure; allelopathic systems; avian ecology

Robert E. Wardle, M.S., Associate Professor
Forensic science education; forensic chemistry; drug analysis; ethics in forensic science; investigation of the "CSI Effect"; fingerprint science
**Degree Requirements**

Students may pursue the M.S. degree in biological sciences in one of two options.

- The thesis option is a research-intensive program designed to provide students a strong foundation in fundamental biological principles and theories through coursework and the completion of a faculty-guided research project (thesis).
- The nonthesis option allows students to gain an in-depth understanding of biology through coursework and the writing of a graduate research paper.

**Thesis Option**

Under this option, students work on a faculty-guided, original research project and gain practical experience in research techniques and data collection. It is designed for students who wish to pursue careers in academic or industrial laboratories or continue toward the Ph.D. degree.

A minimum of 36 semester hours of credit is required for the M.S. degree with thesis option.

**Nonthesis Option**

This option provides students with a strong understanding of fundamental biological principles and theories through coursework and the completion of a faculty-guided research project (thesis). It is designed for students whose future goal is a nonresearch-oriented career, such as professional school or pharmaceutical sales.

A minimum of 38 semester hours of credit is required for the M.S. degree with a nonthesis option.

**Learning Outcomes**

1. Students will be able to integrate and critique information in a specified sub-discipline of biology.

2. Students will be able to evaluate the scientific literature in the biological sciences.

3. Thesis students will conduct independent research in the biological sciences.

4. Students will create a thesis or position paper that critiques current literature, evaluates scientific data and presents a conclusion.

**Graduate Courses**

**BIOL 5806  Field Ecology  4 s.h.**

Field study involving quantitative methods for the collection, analysis, and interpretation of ecological data in populations and communities. Pre-field trip lectures, specified experiments, independent study, a written report, and an oral presentation of the independent study project. Required off-campus travel.

Field conditions may be rigorous and/or primitive.

Prereq.: BIOL 3780.

**BIOL 5811  Ornithology  4 s.h.**

Structure, physiology, behavior, ecology, and evolution of birds. Natural history of common bird species and important bird groups, especially those in Ohio. Basic methods and skills for field study of birds. Three hours lecture, three hours lab.

Prereq.: BIOL 3741.

**BIOL 5811L  Ornithology Laboratory  0 s.h.**

Ornithology Laboratory.

**BIOL 5813  Vertebrate Histology  4 s.h.**

The microscopic study of mammalian tissues and organs. Three hours lecture, two hours lab.

Prereq.: BIOL 3711 or BIOL 3730.

**BIOL 5813L  Vertebrate Histology Laboratory  0 s.h.**

Vertebrate Histology Laboratory.

**BIOL 5823  Advanced Eukaryotic Genetics  3 s.h.**

Mechanisms and control of eukaryotic DNA replication, current advances in understanding the genetics basis of cancer and other genetic diseases, problems and benefits of the various eukaryotic genome projects (human and others), gene therapy and genetic engineering in animals and plants.

Prereq.: BIOL 3721 and BIOL 4890.

**BIOL 5824  Behavioral Neuroscience  4 s.h.**

Explores the biological basis of human experience and behavior. Topics include basic neuroanatomy and neuropharmacology, emotions, learning and memory, sleep and biological rhythms, reproductive behavior, and communication. Three hours lecture, three hours lab.

Prereq.: BIOL 3730.

**BIOL 5824L  Behavioral Neuroscience Laboratory  0 s.h.**

Behavioral Neuroscience Laboratory.

**BIOL 5827  Gene Manipulation  2 s.h.**

Techniques of modern molecular biology including the use of restriction enzymes, plasmid and phage vectors, Southern blots and the polymerase chain reaction (PCR). Introduction and manipulation of foreign DNA in bacterial and eukaryotic systems. Six hours lab.

Prereq.: BIOL 4980.

**BIOL 5832  Principles of Neurobiology  4 s.h.**

Topics include cell and molecular biology of the neuron, properties of excitable membranes, functional neuroanatomy, integrated motor control, sensory signal transduction, developmental neurobiology, mechanisms of disease processes, and higher cortical function.

Prereq.: BIOL 3730.

**BIOL 5833  Mammalian Endocrinology  3 s.h.**

Detailed examination of the hormones of the hypothalamus, pituitary, thyroid, adrenal pancreas, gonads, and other organs with putative endocrine function. Focus on the physiological functions of hormones and their mechanisms of action with emphasis on the human.

Prereq.: BIOL 3730.
BIOL 5840  Advanced Microbiology  3 s.h.
Molecular mechanisms for virulence of pathogenic organisms.
Prereq.: BIOL 3702 or equivalent.

BIOL 5844  Physiology of Reproduction  3 s.h.
Current concepts of reproductive processes and their physiological control in mammalian systems.
Prereq.: BIOL 3730.

BIOL 5853  Biometry  3 s.h.
Application of fundamental theory and procedures to the statistical analysis of biological data.
Prereq.: 20 s.h. of Biological Sciences.

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.

BIOL 6900  Advanced Bioinformatics  3 s.h.
An examination of how computer and informatics technology is applied to biological data analysis, particularly in the area of genomics data mining, and its use in genomics, molecular, and systems biology research. Three hours of lecture per week.
Prereq.: BIOL 4890 or permission of instructor.

BIOL 6902  Ecology of Lakes  3 s.h.
A study of the physical, chemical, biological, and ecological structure and function of lake ecosystems.
Prereq.: permission of instructor.

BIOL 6903  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.: permission of instructor.
BIOL 6937 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. 
Prereq.: BIOL 3759 or BIOL 3750 or permission from instructor.

BIOL 6940 Microbial Physiology 4 s.h.
This course will present advanced topics in biomolecule synthesis, molecular biology, bacterial genetics, gene expression, energy production photosynthesis, bacteriophages, and microbial stress response. An integrative laboratory project emphasizing some of these topics will be included. Three hours lecture and three hours laboratory.
Prereq.: Graduate standing.

BIOL 6948 Biology of Fungi 4 s.h.
Examination of fungal and fungal-like organisms with emphasis placed upon their taxonomy, phylogenetic relationships, structure, function, physiology, genetics, and ecology. Their role in agriculture, medicine, and scientific research is explored as well. Three hours lecture and three hours laboratory.
Prereq.: BIOL 3702 Microbiology and graduate standing.

BIOL 6949 Cellular and Molecular Mycology 3 s.h.
Specific cellular and molecular processes in fungal organisms will be examined in great detail. Topic areas include morphogenesis, dimorphism, signal transduction, gene expression and regulation, cellular differentiation, nutritional physiology, primary and secondary metabolism, and host/parasite interactions.
Prereq.: BIOL 3702 or equivalent, and graduate standing.

BIOL 6950 Comparative Animal Physiology 4 s.h.
The study of physiological mechanisms and adaptations of animals to environmental stresses of their habitats. Three hours lecture and three hours laboratory per week.
Prereq.: BIOL 3730 Human Physiology or equivalent.

BIOL 6950L Animal Physiology Lab 0 s.h.
Animal Physiology Laboratory.

BIOL 6951 Developmental and Comparative Neurobiology 3 s.h.
The study of processes critical to the development, maintenance, and function of the nervous system. Topics will be presented from an experimental perspective using the scientific literature as a resource.
Prereq.: BIOL 3730 Human Physiology or equivalent.

BIOL 6952 Experimental Design 3 s.h.
Controlling variables, experimental design, and treatment of data from biological experiments.
Prereq.: BIOL 5853 or permission of instructor.

BIOL 6954 Advanced Ecology 3 s.h.
Interrelationships of species within the community and their influence upon the ecosystem.
Prereq.: Permission of instructor.

BIOL 6957 Advanced Immunology 3 s.h.
Fundamentals of immunological systems, including both humoral and cellular immunological responses. Immune response to infections, transplantation rejection, autoimmune diseases, allergy, and autoimmunity. Three hours of lecture a week.
Prereq.: BIOL 3702 Microbiology or equivalent.

BIOL 6957L Advanced Immunology Laboratory 2 s.h.
Immunologic laboratory techniques. Four hours of laboratory a week. Should be taken concurrently with BIOL 6957.

BIOL 6959 Analytical Cell Biology 4 s.h.
Analytical concepts are applied to the study of cells and cellular processes. The use of microscopic techniques, including microtechniques, fluorescent microscopic analysis, and immunocytochemistry, are presented. Qualitative and quantitative analysis of macromolecular composition is used in answering contemporary questions in cell biology.
Prereq.: Graduate standing.

BIOL 6962 Systematic Zoology 2 s.h.
Principles, significance, and procedure of zoological taxonomy.
Prereq.: BIOL 3741 Animal Diversity.

BIOL 6963 Virology 3 s.h.
Viral structure, replication, infection, and pathogenesis. The molecular biology of viruses and their interactions with host cells, and the use of viruses as tools for gene therapy and genetic engineering. Current research and viruses important in world health, such as HIV, will be emphasized.
Prereq.: Graduate standing or permission of instructor.

BIOL 6963L Virology Lab 0 s.h.
Virology Laboratory.

BIOL 6964 Advanced Molecular Genetics 3 s.h.
An examination of the mechanisms of transcription, translation, DNA replication, and RNA processing and transposition in both prokaryotes and eukaryotes.
Prereq.: BIOL 4890 Molecular Genetics or permission of instructor.

BIOL 6966 Protein Analysis 4 s.h.
Students will gain experience in the analysis of proteins. Protein structure and function relationships are discussed in the context of their relevance in analytical techniques. Methods presented and used in class include protein quantification, two-dimensional gel electrophoresis, liquid chromatography, gel image analysis, and amino acid analysis. Two hours lecture and four hours laboratory.
Prereq.: BIOL 4836 or equivalent, and graduate standing.

BIOL 6967 Stem Cell Biology 3 s.h.
This course deals with the study of stem cells and their role in biology. Developmental aspects of stem cells and the relevance of stem cells to medicine and applied biology will be discussed.
Prereq.: BIOL 5827 or equivalent.

BIOL 6968 Cell Culture Methods Laboratory 2 s.h.
This course provides instruction and training in standard animal cell culture techniques. Theory and practice using established cell lines. In addition, more advanced cell cultivation will be explored, bio-reactors and 3D bio-printing.
Prereq.: permission of instructor.

BIOL 6974 Neuroendocrinology 3 s.h.
Current concepts of neuroendocrine processes will be discussed.
Prereq.: BIOL 5833 or equivalent, or permission of instructor.

BIOL 6975 Neuropharmacology 3 s.h.
An examination of how drugs interact with the nervous system, including the locus of action for neuroactive substances and the mechanisms by which these substances cause change in physiology and behavior.
Prereq.: Graduate standing or permission of instructor.

BIOL 6976 Cellular Neurophysiology 3 s.h.
Detailed study of ionic currents, regulation of neuronal firing patterns, synaptic transmission, and synaptic plasticity.
Prereq.: BIOL 5832 or permission of instructor.

BIOL 6978 Teaching Practicum 1: Principles of Biology 1 s.h.
A course dealing with principles of pedagogy for both classroom and laboratory settings. This is a broad-based course, which will address basic principles and concepts of modern biology. Emphasis is on relationships between instruction and learning outcomes. Required of all graduate teaching assistants in the Biological Sciences. Students will be assigned a grade of S/U. May be repeated.

BIOL 6979 Teaching Practicum: 1545 Anatomy and Physiology 1 s.h.
A course dealing with the principles of pedagogy for BIOL 1545 Allied Health Anatomy and Physiology. This course addresses classroom and laboratory topics in human anatomy and physiology, with an emphasis on the relationships between instruction and learning outcomes. Required of graduate teaching assistants providing instructional support for BIOL 1545. Students will be assigned a grade of S/U. May be repeated.
BIOL 6981 Teaching Practicum: 1551 Anatomy and Physiology  1 s.h.
A course dealing with the principles of pedagogy for BIOL 1551 Anatomy and Physiology I. This course addresses classroom and laboratory topics in human anatomy and physiology with an emphasis on the relationships between instruction and learning outcomes. Required of graduate teaching assistants providing instructional support for BIOL 1551. Students will be assigned a grade of S/U. May be repeated.

BIOL 6982 Teaching Practicum: 1552 Anatomy and Physiology  2 1 s.h.
A course dealing with the principles of pedagogy for BIOL 1552 Anatomy and Physiology II. This course addresses classroom and laboratory topics in human anatomy and physiology with an emphasis on the relationships between instruction and learning outcomes. Required of graduate teaching assistants providing instructional support for BIOL 1552. Students will be assigned a grade of S/U. May be repeated.

BIOL 6988 Seminar in Biological Sciences  1 s.h.
May be repeated up to two semester hours.

BIOL 6989 Graduate Research Experience  1-3 s.h.
Independent study for graduate students wishing to learn specific biological research techniques. Applicable only to biology graduate students following the nonthesis or biology education options. May be repeated for up to a total of three semester hours.
Prereq.: Permission of instructor or department chair.

BIOL 6990 Master’s Thesis Research  1-6 s.h.
Research selected and supervised by departmental advisor and approved by graduate faculty of Biology Department and graduate dean. May be repeated for a maximum of six semester hours.
Prereq.: Acceptance by departmental committee.

BIOL 6991 Research Methods for Thesis  3 s.h.
Discussion and demonstration of current methods and concepts related to research in biological sciences and writing of a graduate thesis proposal. Not applicable for students enrolled in the nonthesis or biology education options. May be repeated once.
Prereq.: BIOL 5827 or equivalent.

BIOL 6993 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 5827 or equivalent.

BIOL 6994 Research Methods for Nonthesis  2 s.h.
A course focused on reviewing current biological concepts as reported in the scientific literature. Not applicable for students enrolled in the thesis or biology education options.
Prereq.: Permission of instructor.

BIOL 6996 Topics in Ecology  1 s.h.
An arranged course in terrestrial and aquatic ecology. May be repeated with a different subject up to 2 s.h.
Prereq.: Permission of instructor.

BIOL 6997 Topics in Molecular and Cell Biology  1 s.h.
An arranged course in subjects at the molecular level of life. May be repeated with different subject up to 2 s.h.
Prereq.: Permission of instructor.

BIOL 6998 Topics in Physiology  1 s.h.
An arranged course for advanced subjects in vertebrate physiology. May be repeated with a different subject up to 2 s.h.
Prereq.: Permission of instructor.

BIOL 7000 Topics in Microbiology  1 s.h.
An arranged course on subjects of microbiology. May be repeated with a different subject up to 2 s.h.
Prereq.: Permission of instructor.

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Master of Science in Chemistry

Program Director
Dr. Doug Genna
5009 Ward Beecher Science Hall
(330) 941-2261
dtgenna@ysu.edu (srlovelacecameron@ysu.edu)

Program Description
The Department of Chemistry offers a program of study leading to the M.S. degree with concentrations available in:

- analytical,
- biochemistry,
- inorganic,
- materials,
- organic, and
- physical chemistry.

The program prepares the student for practice as a professional chemist by teaching academic fundamentals, creative and independent thinking through independent study and research, and leadership skills through interaction with undergraduate students as graduate teaching assistants. The program is also excellent preparation for further advanced study at other institutions, leading to the Ph.D. degree in chemistry or professional degrees in chemistry-related fields. The department has state-of-the-art instrumentation facilities and a wide assortment of instruments readily available for student and faculty research including: two powder- and three single-crystal X-ray diffractometers, a transmission electron microscope, a Focused Ion Beam/Scanning Electron Microscopy system, two 400 MHz NMRs, FTIR, ICP-AES, AA, GC-MS, LC-MS, high resolution MS, several HPLCs, X-ray fluorescence, thermogravimetric analyzers, differential scanning calorimeter, gel permeation chromatograph, diode array spectrophotometers, and electrochemical systems.

Advisement
Entering students are advised by the program director. Within the first semester of full-time graduate studies, the student should select a thesis advisor, who will assist the student in planning the remainder of the program. Within the first year of full-time graduate studies, the student should select a thesis advisory committee in consultation with the thesis advisor. The committee, including the advisor, will meet periodically with the student to evaluate the progress of the research and to provide guidance.

Admission Requirements
In addition to the minimum admission requirements of the College of Graduate Studies, an applicant for admission to the M.S. degree program in the Department of Chemistry must present an undergraduate major in chemistry or the equivalent. Ordinarily, this entails the completion of at least a year’s study in both organic and physical chemistry. In those cases where the undergraduate preparation is slightly deficient, the applicant may be admitted with provisional status with the approval of the chair of the Chemistry Department and the Graduate Dean. Students must achieve an acceptable score on the Graduate Record Examination general test (GRE) for admission to the program.

Students must submit three recommendation letters and responses, of less than one page, to the following four statements:

1. Describe your academic background. Indicate major and minor(s) in college study, any honors attained or special activities engaged in, and degrees, titles or certificates earned.
2. Describe your employment experience in chronological order, including name and location of employer, kinds of positions held, and responsibilities involved.
3. Describe any research experience or if you have an interest in a specialized field within chemistry.

4. Describe your purpose in working for a master's degree, including your occupational plans and goals.

**Graduate Faculty**

Ganesaratnam K. Balendirar, Ph.D., Professor
Biomolecular structural biochemistry; structure and function of biological molecules and manipulation of their physiological properties with novel chemicals for health benefits

Susan Ann Clutter, M.F.S., Associate Professor
Crime scene investigation; blood spatter interpretation; forensic toxicology; fingerprint development at fire scenes

Douglas T. Genna, Ph.D., Associate Professor
Metal-organic frameworks; Synthesis of new materials; Mechanistic investigations of self-assembly; targeted materials for water and blood detoxification

Allen D. Hunter, Ph.D., Professor
Materials chemistry; crystallography; instrumental Methods; chemistry education

John A. Jackson, Ph.D., Professor
Synthetic organic chemistry, organophosphorus chemistry; synthetic methodology; biologically active compounds; asymmetric synthesis

Brian D. Leskiw, Ph.D., Professor
Mass spectrometric investigation of various compounds, including chemical vapor deposition precursors, substituted phenols, and trace analysis of pyrazines/haloanisoles

Clovis Linkous, Ph.D., Professor
Ceramic electrolytes, polymer membrane electrolytes, solid state hydrogen storage, photovoltaic materials, photocatalysis; flexible and optically transparent conductors

Peter Norris, Ph.D., Professor
Synthesis of novel monomers, oligomers, and polymers derived from carbohydrates; environmentally friendly methods to organic synthesis; catalytic decomposition of natural azide nad diazo

Michael A. Serra, Ph.D., Associate Professor
Effects of free radicals on proteins

Josef B. Simeonsson, Ph.D., Professor
Analytical atomic and molecular spectroscopy; trace and ultra trace analysis; laser induced fluorescence spectroscopy; laser ionization spectroscopy; Raman spectroscopy; environmental analysis

Nina V. Stourman, Ph.D., Associate Professor
Studies of bacterial functional genomics during response to stress; bacterial glutathione metabolism and the mechanism and biological role of bifunctional enzyme glutathionyl spermidine synthetase/amidase (GSS) and its products in E. coli

Timothy R. Wagner, Ph.D., Professor, Chair
Synthesis of inorganic oxide and mixed-anion materials; structure characterizations using single crystal and powder X-ray diffraction; electron microscopy techniques

Robert E. Wardle, M.S., Associate Professor
Forensic science education; forensic chemistry; drug analysis; ethics in forensic science; investigation of the "CSI Effect"; fingerprint science

A minimum of 35 semester hours of credit is required for the M.S. degree.

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**Learning Outcomes**

1. Graduate students will demonstrate a thorough understanding of the chemical principles related to their chosen area of Chemistry or Biochemistry.
2. Graduate students will demonstrate the ability to search and critically assess the scientific literature.
3. Graduate students will demonstrate a thorough understanding of the applications and basic principles of the chemical instrumentation, techniques, and/or software that is commonly used in their sub-discipline.
4. Graduate students will effectively communicate their research ideas and findings both orally and in writing.
Graduate Courses

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.

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.

CHEM 6911 Advanced Analytical Chemistry 1 3 s.h.
Theory and applications of spectroscopy and theory of chemical separation methods.
Prereq.: CHEM 3739 Physical Chemistry I.

CHEM 6912 Advanced Analytical Chemistry 2 3 s.h.
Applications of chemical separation methods and theory and applications of electrochemistry and electrochemical techniques.
Prereq.: CHEM 3739 Physical Chemistry.

CHEM 6921 Advanced Biochemistry 1 3 s.h.
Protein structure and intermediary metabolism.
Prereq.: CHEM 3720, or concurrently with CHEM 3737 or CHEM 3739.

CHEM 6922 Advanced Biochemistry 2 3 s.h.
A study of metabolic pathways and other biochemical systems at the molecular level.
Prereq.: CHEM 6921.

CHEM 6931 Advanced Inorganic Chemistry 1 3 s.h.
Current theories and types of bonding. Modern structural principles with applications in main-group molecular compounds, coordination compounds, and inorganic solids.
Prereq.: CHEM 3729 Inorganic Chemistry.

CHEM 6932 Advanced Inorganic Chemistry 2 3 s.h.
Transition metal organometallic chemistry emphasizing molecular structure, bonding methods, characterization, and functional group reactivity. The properties, chemical reactivity, and trends of the elements.
Prereq.: CHEM 5830, CHEM 6931, or permission of instructor.

CHEM 6933 Physical Methods in Structure Determination 3 s.h.
The determination of molecular-level structures of biological, organic, and inorganic compounds in the gas phase, solution, and solid state by diffraction and spectroscopic methods, especially X-ray crystallography and NMR spectroscopy. Three hours lecture.
Prereq.: CHEM 5822, CHEM 5832, or permission of instructor.

CHEM 6941 Advanced Organic Chemistry 1 3 s.h.
Principles of chemical bonding and structure in organic molecules, physical organic chemistry, structure of reactive intermediates, stereochemistry, and detailed descriptions of reaction mechanisms.
Prereq.: CHEM 3721 Genetics and CHEM 3740 Physical Chemistry 2.

CHEM 6942 Advanced Organic Chemistry 2 3 s.h.
Prereq.: CHEM 6941.

CHEM 6951 Advanced Physical Chemistry 1 3 s.h.
Principles of quantum chemistry and spectroscopy with applications.
CHEM 6952 Advanced Physical Chemistry 2 3 s.h.
Molecular basis of thermodynamics and kinetics.

CHEM 6963 Advanced Polymer Science 3 s.h.
Advanced methods of polymer synthesis and characterization, high performance polymers, polymerization kinetics and mechanisms, polymer processing, materials optimization, and high performance applications. Three hours lecture.
Prereq.: CHEM 3740 and CHEM 5861, or permission of the instructor.
CHEM 6969  Laboratory Problems  2 s.h.
A laboratory course that stresses individual effort in solving chemical problems. Recommended for high school chemistry teachers. Not applicable to the M.S. degree in chemistry. May be repeated up to six semester hours. 
Prereq.: An undergraduate minor in chemistry.

CHEM 6971  The Teaching and Learning of Chemistry  3 s.h.
An introduction to the current literature and research problems in the teaching and learning of chemistry. Topics include theories of teaching, learning styles, assessment, problem solving, misconceptions, and the role of laboratories, recitations, and demonstrations in learning chemistry. Also includes examination of these issues as related to teaching biology.

CHEM 6972  Methods of Chemistry Education Research  3 s.h.
Principles of chemistry education research. Issues of problem design, data collection, and data analysis are considered from both quantitative and qualitative frameworks. Methodologies include surveys and questionnaire, think-along protocols, interviews, observations, and action research. Also includes examination of these issues as related to biology.

CHEM 6973  Chemistry and National Science Education Standards  3 s.h.
Implications of national standards for modifying high school chemistry instruction in a variety of classroom situations. Topics include inquiry learning, science and technology literacy, the history and nature of science, preservice science teacher education, assessment, and the impact of standards on advanced placement chemistry.

CHEM 6975  An Introduction to Teaching Chemistry  1 s.h.
A course to prepare graduate students to serve as teaching assistants in both chemistry laboratories and recitations. Topics include laboratory safety (governmental regulations, ACS guidelines, hazardous materials, waste disposal) and practical matters of teaching (active learning, leading discussions, grading, cheating, etc.). Required of all graduate students serving as first-year teaching assistants.

CHEM 6976  Teaching Practicum in General Chemistry  2 s.h.
Teaching strategies in the General Chemistry laboratory. Students will meet with General Chemistry course instructors and must demonstrate proficiency in the material to be presented in CHEM 1515 General Chemistry 1 and CHEM 1516 General Chemistry 2 laboratories. Grading for CHEM 6976 is S/U. May be repeated for a total of six semester hours for CHEM 6976, CHEM 6977, CHEM 6978, and CHEM 6979.
Prereq. or concurrent: CHEM 6975.

CHEM 6977  Teaching Practicum in Chemistry for Allied Health Sciences Lab  2 s.h.
Teaching strategies in CHEM 1510. Students will meet with the course instructor and must demonstrate proficiency in the material to be presented in CHEM 1510. Grading for CHEM 6977 is S/U. May be repeated for a total of six semester hours for CHEM 6977.
Prereq.: or concurrent: CHEM 6975.

CHEM 6978  Teaching Practicum in Organic Chemistry  2 s.h.
Teaching strategies in the organic chemistry laboratory. Students will meet with organic chemistry course instructors and must demonstrate proficiency in the material to be presented in CHEM 3719 Organic Chemistry 1 and CHEM 3720 Organic Chemistry 2 laboratories. Grading for CHEM 6978 is S/U. May be repeated for a total of six semester hours for CHEM 6976, CHEM 6977, CHEM 6978, and CHEM 6979.
Prereq. or concurrent: CHEM 6975.

CHEM 6979  Teaching Practicum for Chemistry in Modern Living Lab  1 s.h.
Teaching strategies in the Chemistry in Modern Living Laboratory. Students will meet with course coordinator and must demonstrate proficiency in the material to be presented in CHEM 1500L. Grading for CHEM 6979 is S/U. May be repeated for a total of six semester hours for CHEM 6979.
Prereq. or concurrent: CHEM 6975.

CHEM 6980  Introduction to Chemical Research  3 s.h.
Principles of chemical research planning, design, execution, and reporting. Includes research proposals, record keeping, written reports, oral presentations, the reviewing process, and professional standards. The application of the principles of chemical research to the student’s M.S. research project. Required of all first-year students in the M.S. program in chemistry.

CHEM 6981  Seminar 1  1 s.h.
Preparation of a formal written research proposal and oral presentation of the proposal. Under the guidance of a research supervisor, the student will investigate the background literature and rationale for a project. Required of all first-year students in the M.S. program in chemistry. Hours arranged.
Prereq.: CHEM 6980 and permission of the Chemistry chair.

CHEM 6982  Seminar 2  1 s.h.
Oral presentation and defense of thesis. Hours arranged.
Prereq.: CHEM 6981 and permission of the thesis advisor, or concurrently with six semester hours of CHEM 6990.

CHEM 6985  Fundamental Chemistry for Educators  3 s.h.
Fundamentals of general, organic, and biological chemistry including application to the teaching of science. Two hours lecture, three hours laboratory/discussion. Not applicable to the M.S. degree in chemistry.
Prereq.: Admission to the graduate program or permission of instructor.

CHEM 6986  Seminar in Chemistry  1-3 s.h.
Laboratory course that stresses individual effort in solving chemical problems. Recommended for high school chemistry teachers. May be repeated for a total of six semester hours for CHEM 6986.
Prereq.: or concurrent: CHEM 6980.

CHEM 6987  Special Topics  1-3 s.h.
Topics selected by the faculty from fields of current research, pedagogical interest, or special emphasis. S/U grading option. May be repeated with different topics.

CHEM 6990  Thesis  1-9 s.h.
Hours arranged. May be repeated.

CHEM 6991  Special Topics in Chemistry Practicum  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.

Master of Science in Criminal Justice
Program Director
Dr. Christopher M. Bellas
1420 Cushwa Hall
(330) 941-2167
cmbellas@ysu.edu

Program Description
The Master of Science in criminal justice at YSU provides professional education for criminal justice students. Criminal Justice faculty members are currently involved in research in police management theory, applied police management, correctional organization and treatment, crime statistics, and criminological theory. Students are encouraged to participate in this ongoing research.

Students considering a career in the field of criminal justice should be aware that many employers and agencies may require applicants to meet certain preemployment qualifications. These may include, but are not limited to,

- lack of a criminal record,
- satisfactory background checks,
- physical standards and conditions, and
- emotional stability.

Regular Admission
To obtain regular admission, students must have a cumulative grade point average in undergraduate work of 3.0 or higher (on a 4.0 scale) or a satisfactory standardized test score (30th percentile or higher on the GRE overall, or MAT group overall score) and undergraduate GPA of 2.7 or higher. If
The graduate program in criminal justice adheres to the position that the administration of criminal justice is a continuous, integrated process from prevention of crime through completion of all legal intervention. The program is designed to provide society with individuals who have both a substantial awareness of the overall system and the essential competencies required to perform professional roles within it. To achieve this objective, the program broadens the student's knowledge of the total criminal justice process and provides professional education so that its graduates may assume positions of leadership within the criminal justice system. The program also prepares students for doctoral studies in criminal justice or criminology.

Students seeking the M.S. degree in criminal justice may elect either a thesis or non-thesis option. The Criminal Justice program will accept courses from other departments offering 5000- or 6000-level courses. Students should see the graduate coordinator when selecting these courses.

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</table>

Any departure from this requires prior approval of the student’s committee and graduate coordinator.

Study in courses outside the core

Graduate Research Paper

Oral Exam (defense)

**Thesis Option**

A minimum of 30 semester hours is required in this option, of which up to six hours may be thesis. No more than nine semester hours may be below the 6900 level.

**Non-Thesis Option**

A minimum of 35 semester hours is required of which no more than 12 semester hours may be below the 6900 level. The non-thesis option will require a major graduate research paper worth two credits and an oral exam (defense) upon its completion.

**Learning Outcomes**

SLO1: Students will demonstrate knowledge on how to evaluate programs, policies, theories, and research related to the Criminal Justice system.

SLO2: Students will demonstrate knowledge on how to use key Criminal Justice concepts to administrate programs and lead others.

SLO3: Students will demonstrate knowledge on how to perform their own research related to the Criminal Justice system.

**Graduate Courses**

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 3735.

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 5856  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 human resource systems and the limits of such data, with primary emphasis upon multivariate statistics and their application to the field.

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 selections 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.

Master of Science in Environmental Science

Program Director
Dr. Jeffrey Dick
2119 Moser Hall
330-941-1756
jcdick@ysu.edu (fparmstrong@ysu.edu)

Program Description
The Environmental Science program offers a multidisciplinary, interdepartmental graduate program leading to a Master of Science degree. The program office is housed in Moser Hall and is administered by the Department of Physics, Astronomy, Geology and Environmental Sciences. This program is intended for individuals who have undergraduate degrees in Environmental Science/science, other natural or social sciences, engineering, or health professions. It is designed to meet the needs of students and working professionals preparing for supervisory roles in environmental science (research and management), with emphasis on a risk-based approach to the solving of environmental problems. The curriculum requires students to broaden their knowledge with core courses in Environmental Science, to deepen their expertise with elective courses, and to demonstrate their abilities to prepare a scholarly thesis. This degree will benefit students who are planning careers with regulatory agencies, regulatory compliance and management, research facilities, and consulting firms providing state-of-the-art assessment, management, and remediation.

Admission Requirements
- One year of college-level general chemistry with lab
- One semester of calculus
- A minimum of 15 semester hours of additional science courses with two of these additional courses containing a lab component (chemistry, biology, environmental science, geology, environmental engineering and/or physical geography).
- An cumulative undergraduate minimum grade point average of 3.0 (on a 4.0 scale) is required for admission. Students with a GPA of under 3.0 could be considered for provisional admission.
- Satisfactory performance on Graduate Record Examination (general test)
- Three letters of recommendation.

Applicants not satisfying the minimum admission requirements may be accepted provisionally at the discretion of the Department Graduate Committee. In those cases where the undergraduate preparation is deficient in three or fewer courses, students must satisfy the deficiencies by completing the equivalent undergraduate courses with a grade of B or better within the first year of study as a provisional graduate student.

Any student admitted with provisional status will be reviewed for regular graduate admission to the program at the completion of 9 semester hours of degree-credit coursework. Students with an undergraduate course deficiency greater than three courses must remove the deficiency as a post baccalaureate, undergraduate student.

Graduate Faculty
Isam E. Amin, Ph.D., Professor
Ground water contamination and remediation; characterization and remediation of Mahoning River banks; sediment transport in rivers and streams; intra-state water conflicts

Felicia P. Armstrong, Ph.D., Associate Professor
Environmental chemistry of soils; water quality; ecotoxicology; soil remediation

Jeffrey C. Dick, Ph.D., Professor
Groundwater contamination; water quality characterization/baseline investigations and petroleum geology

Alan M. Jacobs, Ph.D., Professor
Environmental health sciences in public health

Thomas Jordan
Environmental geophysics; archaeo-geophysics; hydro-geophysics; exploration; geophysics and hydrogeology

Colleen McLean, Ph.D., Associate Professor
Aqueous and environmental geochemistry; paleolimnology; biogeochemistry

Ian J. Renne, Ph.D., Associate Professor
Plant community ecology; invasive species; community structure; allelopathic systems; avian ecology

Bradley A. Shellito, Ph.D., Professor
Applications of geospatial technology (Geographic Information Science, remote sensing, global positioning systems, and 3D Modeling)

Josef B. Simeonsson, Ph.D., Professor
Analytical atomic and molecular spectroscopy; trace and ultratrace analysis; laser induced fluorescence spectroscopy; laser ionization spectroscopy; Raman spectroscopy; environmental analysis

Degree Requirements

Environmental Science program requires courses that are designed to provide breadth in environmental science and understanding of environmental issues and regulations. Each student admitted to the program will meet with the coordinator to choose initial coursework and meet graduate faculty. It is highly recommended that new students enroll in ENST 6995 Introduction to Environmental Science Research. Each graduate student is required to select a thesis committee with the recommendation of his or her thesis advisor within the first year of full-time graduate study.

All students in the Environmental Science graduate program must have their course schedules approved by their thesis advisors every semester. A proposed course of study must be approved by the thesis committee. The course of study will be based on the student’s area of specialization, background, and career interests.

The thesis committee will consist of three to five faculty members in appropriate fields of expertise and one non-faculty professional. The non-faculty member must qualify for appointment as an adjunct graduate faculty member at YSU. Research proposals and proposed course of study must be completed and approved by the thesis committee by the end of the second semester of full-time graduate study.

The thesis shall advance knowledge in environmental science and be applicable to the solving of environmental problems. The thesis requirement includes a formal document and a draft article in journal format suitable for publication submittal. A draft of the thesis must be reviewed by the thesis advisor then submitted to the thesis committee two weeks before the thesis defense. The thesis defense will comprise an oral presentation before the thesis committee for final thesis approval.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>ENST 6900</td>
<td>Advanced Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 5853</td>
<td>Biometry</td>
<td>3</td>
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<tr>
<td>Select two of the following:</td>
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<td>6</td>
</tr>
<tr>
<td>ENST 5800</td>
<td>Environmental Impact Assessment</td>
<td></td>
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<tr>
<td>ENST 5830</td>
<td>Toxicology and Risk Assessment</td>
<td></td>
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<tr>
<td>ENST 5860</td>
<td>Environmental Regulations</td>
<td></td>
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<tr>
<td>ENST 6901</td>
<td>Sources of Contamination</td>
<td></td>
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<tr>
<td>ENST 6920</td>
<td>Environmental Compliance</td>
<td></td>
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<tr>
<td>ENST 6921</td>
<td>Industry/Institutional Management for the</td>
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<tr>
<td></td>
<td>Environmental Professional</td>
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<tr>
<td>ENST 6931</td>
<td>Ecological Risk Assessment</td>
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</tr>
</tbody>
</table>

Electives

Select an additional 15 semester hours. Elective courses can come from Environmental Science, Geology, Biology, Civil/Environmental Engineering, Geography, Chemistry or other disciplines recommended by the graduate committee.

Note: Additional ENST courses may be taken as electives.

ENST 6995 Introduction to Environmental Science Research (recommended)
ENST 5810 Environmental Safety (recommended)

Thesis

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<tbody>
<tr>
<td>ENST 6990</td>
<td>Thesis</td>
<td>6</td>
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</table>

Total Semester Hours 33

All graduate students in Environmental Science are required to successfully pass a graduate exam during the second year of their graduate program. Currently the Environmental Professional Intern (EPI) exam is being utilized. This exam covers topics in environmental science with respect to chemistry, biology, regulations, analysis, and other environmental issues.

No more than nine (9) semester hours from the 5800 level (swing course) may be counted towards the Master of Science degree. (Note: More courses at the 5800 level can be taken, but only 9 s.h. count towards the 27 s.h. required for the Master’s degree). Additional background courses (undergraduate or graduate) may be required as prerequisites for some of the graduate courses.

Credits earned for the Graduate Certificate in Environmental Studies may be applied to the Master of Science degree to the extent allowed by the College of Graduate Studies (normal nine semester hours). Students in the certificate program, who intend to pursue the Master’s degree, must apply to and meet all the requirements for the Environmental Science Master of Science program.

Learning Outcomes

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).

Apply environmental science research as demonstrated by the successful completion of the comprehensive exam and a Master’s thesis.

Graduate Courses

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.

Gen Ed: Capstone.
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.

ENST 6900  Advanced Environmental Studies  3 s.h.
A study of the principles and issues of environmental science, health,
technology, and affairs. Topics will include contaminant chemistry; terrestrial
and aquatic ecology; risks to human health; waste management; conservation;
and sustainable development, energy, and pollution. Local, regional, and global
issues will be studied.

ENST 6901  Sources of Contamination  3 s.h.
A study of the sources and fate and transport of air, water, and soil
contaminants that have potential to adversely affect human health and the
environment. Topics will include measurement of environmental parameters,
data collection and reporting, interpretation of results, compliance issues, and
economic implications.

ENST 6905  Teaching Methods in Geology and Environmental Science  2 s.h.
A required course for all Department of Geological and Environmental
Sciences graduate teaching assistants. This course will provide guidance and
instruction in teaching introductory laboratories in the department.

ENST 6910  Environmental Management Systems Standards (ISO 14001)  1 s.h.
Introduction to establishing a program to set internal industrial standards
to identify, measure, and control the environmental impact of their activities,
products, and services, including environmental policy, communication, legal
requirements, training, documentation, and emergency preparedness.

ENST 6920  Environmental Compliance  3 s.h.
Regulatory compliance concerning operations of environmental and health
and safety departments. RCRA permitting (NPDES and air emissions),
landfilling, Right to Know, waste generation, storage, shipping (manifests and
placarding), disposal of wastes, MSDS, OSHA regulations, safe work practices,
hiring consultants (technical and legal), writing requests for proposals, and
documenting and report writing.
Prereq.: ENST 5860, ENST 6900, or equivalent.

ENST 6921  Industry/Institutional Management for the Environmental Professional  3 s.h.
An undergraduate background in management principles and operations
relating to the environmental professions. Topics include budgeting, staffing,
scheduling, leadership, and quality assurance/control. The student will learn to
write, evaluate, and implement technical and cost proposals for contracts and
grants, scopes of work, operations plans, sampling and analysis plans, health
and safety plans, job descriptions, resumes, statements of qualifications,
misrepresentation, meeting agendas (for professionals and the general
public), and other written and oral communications (reports, memoranda,
memoranda of understanding, policy briefs, press releases, fact sheets,
requests for information).
Prereq.: ENST 6900 or equivalent.

ENST 6930  Risk Management  3 s.h.
Using the principles of risk assessment, the student will learn to manage
existing environmental risks in the workplace. Topics will include workplace
health hazards, product liability, toxic tort claims, cleaning strategies for
risk reduction such as brownfield redevelopment, voluntary action programs,
alternative, and regulatory actions. Economic importance, resource allocation,
technical feasibility, and public opinion will be discussed.
Prereq.: ENST 6900 and ENST 5830 or equivalent.

ENST 6931  Ecological Risk Assessment  3 s.h.
The student will examine environmental risks to nonhuman populations.
Topics will include the study of measurements of adverse effects due to one or
more stressors by examining population communities and ecosystems. Also,
the class will study the following issues: threatened and endangered species,
water, wetlands, endocrine disruption, multiple stressors, sediment and soil toxicity,
conservation, Toxic others, screening versus site-specific studies, and natural resource
damage claims.
Prereq.: ENST 6900 and ENST 5830 or equivalent.

ENST 6990  Thesis  1-6 s.h.
Hours arranged. Applicable to master’s degree in environmental studies.
Research selected and supervised by departmental advisor and approved by
graduate faculty of environmental studies program and graduate dean. May be
repeated.

ENST 6995  Introduction to Environmental Science Research  2 s.h.
This course introduces the student to the fundamental and practical aspects
of research, especially as they apply to environmental sciences. The course
emphasizes research methodologies and ethics, how to review the literature,
how to write a research proposal, and how research results are presented. The
course will include presentations of the faculty research interests.
Prereq.: graduate standing or permission of instructor.

ENST 6999  Special Topics in Environmental Science  1-3 s.h.
Environmental science topics selected by faculty from fields of current
research interest or of special emphasis. May be repeated with a different
topic up to a total of six semester hours.
Prereq.: Permission of director.
Students not satisfying all of the above may be admitted with provisional status subject to the approval of the graduate program director and the graduate dean.

### Graduate Faculty

**Alexis Byers**, Ph.D., Assistant Professor  
Graph Theory

**Guang-Hwa (Andy) Chang**, Ph.D., Professor  
Biostatistics

**Neil Flowers**, Ph.D., Assistant Professor  
Solvable groups; classification problems in group theory

**Richard G. Goldthwait**, Ph.D., Assistant Professor  
Math education

**Jozsi Z. Jalics**, Ph.D., Professor  
Computational neuroscience; mathematical biology; dynamical systems; partial differential equations

**G. Jay Kerns**, Ph.D., Professor  
Signed measures; infinite divisibility; exchangeability in probability and statistics; applications of stochastic processes

**Lucy Xiaojing Kerns**, Ph.D., Associate Professor  
Simultaneous confidence bands; minimum effective doses; benchmark dose methodology

**Thomas L. Madsen**, Ph.D., Associate Professor  
Abstract algebra; group theory; representation theory

**Nguyen Thi Nguyen**, Ph.D., Associate Professor  
Financial models; Monte Carlo simulation; actuarial science

**Anita C. O'Mellan**, Ph.D., Professor  
Graph theory; combinatorics; early childhood mathematics education

**Alicia Prieto Langarica**, Ph.D., Professor  
Mathematical biology; agent-based modeling

**Stephen Rodabaugh**, Ph.D., Professor  
Foundations of topology and fuzzy logic: point-set, lattice-theoretic, and categorical methods

**Thomas Smotzer**, Ph.D., Professor  
Real analysis; measure theory; operator theory

**Jamal K. Tartir**, Ph.D., Professor  
Set-theoretic topology

**Padraic ("Paddy") W. Taylor**, Ph.D., Associate Professor  
Multipoint Boundary Value Problems

**Thomas P. Wakefield**, Ph.D., Professor, Chair  
Character theory; actuarial science

**Eric J. Wingler**, Ph.D., Professor  
Real analysis; complex analysis; operator theory

- A minimum of 33 semester hours of credit excluding MATH 5821 Topics in Abstract Algebra and MATH 5851 Topics in Analysis
- A cumulative grade point average of at least 3.0
- Students entering without a prior course in abstract algebra must include MATH 5821 Topics in Abstract Algebra in their program, to be taken in the earliest available semester, and students entering without a prior course in theoretical analysis must include MATH 5851 Topics in Analysis in their program, to be taken in the earliest available semester. These courses are not included in the 33-semester-hour minimum requirement.
- The student's combined undergraduate and graduate programs must include a mathematics core comprising the following courses or their equivalent:

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MATH 5821</td>
<td>Topics in Abstract Algebra (taken in the earliest available semester)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 5851</td>
<td>Topics in Analysis (taken in the earliest available semester)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 5825</td>
<td>Advanced Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5852</td>
<td>Real Analysis 2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6996</td>
<td>Mathematical Project</td>
<td>1-3</td>
</tr>
</tbody>
</table>

- Satisfactory performance on written and oral examinations. The subject matter for these examinations must be approved by the Graduate Executive Committee. Additionally, the following distribution requirements apply:
  - Written exams in MATH 5852, Math 5825 and the first course in the student’s chosen course sequence
  - Oral exam on thesis, or oral exam on a project and two courses
  - At least half of the hours of the courses examined must be at the 6900 level

- At least 17 hours of the student’s approved program must be at the 6900 level. In addition to completing the courses which make up the mathematics core, students must complete at least one course sequence for depth and at least fifteen additional hours of elective courses to satisfy the breadth requirement for the degree. The course groupings are described below.

  - MATH 6999 Thesis is highly recommended
  - Before completing 12 semester hours, the student must submit the entire degree program for approval and evaluation by the Graduate Executive Committee in the Department of Mathematics and Statistics. Subsequent revisions to this program must be approved by the Graduate Executive Committee. An abstract of a proposed thesis must be submitted for approval prior to registering for the course.
  - Students must participate in an exit interview during the semester in which they plan on graduating. The exit interview will be conducted with one or more members of the Graduate Executive Committee and must be scheduled by the student prior to the thesis or project presentation.

### Course Sequences for Depth

The description of the recommended course sequences for depth will refer to the following list. The sequences offered depend upon student interest.

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 6922</td>
<td>Advanced Topics in Group and Ring Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6923</td>
<td>Advanced Topics in Field Theory</td>
<td>3</td>
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</tbody>
</table>

### Actuarial Mathematics
STAT 6988  Modeling in Financial Economics  3
STAT 5802  Theory of Interest  3

Advanced Data Analysis
STAT 6940  Advanced Data Analysis  3
STAT 6948  Linear Models  3

Differential Equations
MATH 6955  Advanced Differential Equations  3
MATH 6957  Partial Differential Equations  3

Mathematical Statistics
STAT 6943  Mathematical Statistics 1  3
STAT 6944  Mathematical Statistics 2  3

Numerical Analysis
MATH 5860  Numerical Analysis 1  3
MATH 5861  Numerical Analysis 2  3

Operations Research
MATH 5845  Operations Research  3
MATH 6942  Advanced Operations Research  3

Topology
MATH 5860  Topology 1  3
MATH 5861  Topology 2  3

Predoctoral Studies in Mathematics and Applied Mathematics

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
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<td>3</td>
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<tr>
<td>MATH 6923</td>
<td>Advanced Topics in Field Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6975</td>
<td>Complex Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 5852</td>
<td>Real Analysis 2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6980</td>
<td>Topology 1</td>
<td>3</td>
</tr>
<tr>
<td>STAT 6940</td>
<td>Advanced Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6955</td>
<td>Advanced Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6943</td>
<td>Mathematical Statistics 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6944</td>
<td>Mathematical Statistics 2</td>
<td>3</td>
</tr>
</tbody>
</table>

| Electives | Select two or more sequences in areas of interest | |

Statistics

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
</table>
| Core Requirements
STAT 6940  Advanced Data Analysis  3
STAT 6948  Linear Models  3
STAT 6943  Mathematical Statistics 1  3
STAT 6944  Mathematical Statistics 2  3

| Electives | Select 9 additional hours of statistics courses. | 9 |

Actuarial Science

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
</table>
| Core Requirements
STAT 5802  Theory of Interest  3
STAT 6943  Mathematical Statistics 1  3
STAT 6944  Mathematical Statistics 2  3

| Electives | Select from statistics and actuarial science course offerings | |

Applied Mathematics

<table>
<thead>
<tr>
<th>COURSE</th>
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</tr>
</thead>
</table>
| Core Requirements
STAT 6940  Advanced Data Analysis  3
MATH 6955  Advanced Differential Equations  3
STAT 6943  Mathematical Statistics 1  3
MATH 5861  Numerical Analysis 2  3
MATH 5845  Operations Research  3

| Depth Requirement | Select the second course in one of the sequences | |

Secondary/Community College Mathematics

<table>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>STAT 6943  Mathematical Statistics 1</td>
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<tr>
<td>or</td>
<td>STAT 6940  Advanced Data Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

| Select one of the following: | |
| MATH 6915  Mathematical Foundations  | 3    |
| MATH 6922  Advanced Topics in Group and Ring Theory  | 3    |
| MATH 6923  Advanced Topics in Field Theory  | 3    |
| MATH 5861  Numerical Analysis 2  | 3    |
| MATH 5845  Operations Research  | 3    |

| Electives | Select two or more sequences in areas of interest | |

Statistics

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
</thead>
</table>
| Core Requirements
STAT 6940  Advanced Data Analysis  3
STAT 6948  Linear Models  3
STAT 6943  Mathematical Statistics 1  3
STAT 6944  Mathematical Statistics 2  3

| Electives | Select 9 additional hours of statistics courses. | 9 |

Actuarial Science

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
</table>
| Core Requirements
STAT 5802  Theory of Interest  3
STAT 6943  Mathematical Statistics 1  3
STAT 6944  Mathematical Statistics 2  3

| Electives | Select from statistics and actuarial science course offerings | |

Accelerated MS Mathematics

Undergraduate students can apply for admission into the accelerated program for the MS in Mathematics after completing 78 semester hours with a GPA of 3.3 or higher. After being admitted into the program, students can take a maximum of nine semester hours of graduate coursework that can count toward both an 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.

Learning Outcomes

Students will develop and demonstrate the ability to reason mathematically by constructing mathematical proofs and recognizing and analyzing accurate numerical data in appropriate 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, both orally and in writing, by completing a graduate project or thesis involving an investigative mathematical project, together with oral and written examinations.
Students in cooperative doctoral programs will demonstrate their ability to create significant, original mathematics.

**Graduate Courses**

**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.

**MATH 6901** **Mathematics Workshop** 1-6 s.h.
Intensive study and activity in a topic related to mathematics, its applications, or the teaching of mathematics. May be repeated. Grading is S/U.
Prereq.: Permission of graduate coordinator.

**MATH 6905** **College Teaching of Mathematics** 1 s.h.
Intensive preparation for teaching lower-level mathematics courses, featuring formal instruction and orientation on teaching issues, evaluated presentations, mentored classroom instruction, and weekly teaching seminars. Topics include course design, policies, syllabi, grading; classroom teaching problems; orientation in Mathematics Assistance Center, specific lower-level mathematics courses, online tutorial services. Required of graduate assistants in the Department of Mathematics and Statistics and to be taken each semester the student is a graduate assistant. Grading is S/U. Does not count toward credit in the program.

**MATH 6910** **Advanced Engineering Mathematics 1** 3 s.h.
Theory and solution techniques used in engineering applications. Topics include brief review of ordinary differential equations and linear algebra; vector calculus, integral theorems, complex analysis, series, residue theory, potential theory, special functions, integral transforms, partial differential equations and applications in mathematical modeling.
Prereq.: MATH 3705.

**MATH 6911** **Advanced Engineering Mathematics 2** 3 s.h.
Theory and solution techniques used in engineering applications. Topics include brief review of ordinary differential equations and linear algebra; vector calculus, integral theorems, complex analysis, series, residue theory, potential theory, special functions, integral transforms, partial differential equations and applications in mathematical modeling.
Prereq.: MATH 6910.

**MATH 6915** **Mathematical Foundations** 3 s.h.
Order-theoretic and monadic foundations of mathematics: ordered structures; topologies; powerset operators of a function; applications to continuity, compactness, algebra, logic, and calculus.
Prereq.: MATH 3721 Abstract Algebra I and MATH 3751 Real Analysis I, or permission of graduate coordinator.

**MATH 6922** **Advanced Topics in Group and Ring Theory** 3 s.h.
A continuation of MATH 5821 with special emphasis on groups acting on sets, Sylow's Theorem and its applications, ring homomorphisms, ideals, and polynomial rings. Credit will not be given for MATH 4822 and MATH 6922.
Prereq.: MATH 3721 or MATH 5821.

**MATH 6923** **Advanced Topics in Field Theory** 3 s.h.
This course introduces the major results in advanced field theory. These results include splitting fields, algebraic extensions, finite extensions, cyclotomic polynomials, and finite fields. Credit will not be given for MATH 4823 and MATH 6923.
Prereq.: MATH 4822 or MATH 6922.

**MATH 6924** **Galois Theory** 3 s.h.
An introduction to Galois Theory with special emphasis on the Galois group, the Fundamental Theorem of Galois Theory, and radical extensions.
Prereq.: MATH 4823 or MATH 6923.

**MATH 6928** **Advanced Number Theory** 3 s.h.
Advanced study of number theory: theory and distribution of primes, computational number theory, and additive number theory.
Prereq.: MATH 5828.

**MATH 6930** **Differential Geometry** 3 s.h.
Classical differential geometry of curves and surfaces, differentiable manifolds with tensors.
Prereq.: MATH 5852.

**MATH 6942** **Advanced Operations Research** 3 s.h.
Topics may include integer programming, advanced linear programming, nonlinear programming, dynamic programming, queuing theory, Markov analysis, game theory, and forecasting models.
Prereq.: MATH 5845 and STAT 3743 Probability and Statistics.

**MATH 6955** **Advanced Differential Equations** 3 s.h.
Proofs of existence and uniqueness of nonautonomous, nonlinear equations. Additional topics may include advanced linear systems, partial differential equations, and integral equations.
Prereq.: MATH 5852 and either MATH 3705 or MATH 4855 or permission of graduate coordinator.
MATH 6957 Partial Differential Equations 3 s.h.
An introduction to partial differential equations (PDE) and their applications. The classification of the basic types of linear partial differential equations, development of how boundary and initial conditions affect solutions, exploration, and application of solution techniques for PDEs and explosions in orthogonal functions will be presented.
Prereq.: MATH 3705 and MATH 3720 or equivalent.

MATH 6965 Abstract Analysis 1 3 s.h.
Lebesgue integration and measure on the real line. General measure theory and functional analysis, including the Radon-Nikodym theorem, the Fubini theorem, the Hahn-Banach theorem, the closed graph and open mapping theorems, and weak topology.
Prereq.: MATH 5852 and either MATH 4880 or MATH 6915 or permission of graduate coordinator.

MATH 6975 Complex Analysis 1 3 s.h.
Analytic and meromorphic functions of a complex variable, contour integration, the Cauchy-Goursat theorem, Taylor and Laurent series, residues and poles, conformal mapping. Credit will not be given for both MATH 5875 and MATH 6975.
Prereq.: MATH 3751 Real Analysis I, or permission of graduate coordinator.

MATH 6980 Topology 1 3 s.h.
Basic concepts of topological spaces and mappings between them, including compactness, connectedness, and continuity. Credit will not be given for both MATH 4880 and MATH 6980.
Prereq.: MATH 3721 Abstract Algebra I and MATH 3751 Real Analysis I, or permission of graduate coordinator.

MATH 6981 Topology 2 3 s.h.
Separation, metrization, compactification. Additional topics will be selected from point-set topology, fuzzy topology, algebraic topology, combinatorial topology, topological algebra.
Prereq.: MATH 4880 or MATH 6980, or permission of graduate coordinator.

MATH 6990 Independent Study 1-3 s.h.
Study under the supervision of a staff member. May be repeated.
Prereq.: Consent of graduate coordinator.

MATH 6995 Special Topics 1-3 s.h.
Specialized topics selected by the staff. May be repeated up to 12 semester hours.
Prereq.: Permission of graduate coordinator and department chair.

MATH 6996 Mathematical Project 1-3 s.h.
Individual research project culminating in a written report or paper, though not as broad in scope as a thesis. May be repeated once if the second project is in a different area of mathematics.

MATH 6999 Thesis 3 s.h.
A student may register for six semester hours in one semester or for three semester hours in each of two semesters.

MATH 7005 Advanced Topics in Categorical Topology 3 s.h.
Content varies with each offering. Implements ideas from MATH 6915, MATH 6980, MATH 6981, and studies categorical methods in topology and related concrete categories. Emphasis on current literature and open questions. May be repeated with approval of graduate coordinator.
Prereq.: MATH 6915, MATH 6980, MATH 6981, or equivalent, or permission of the graduate coordinator.

MATH 7015 Advanced Topics in Foundations of Topology 3 s.h.
Content varies with each offering, implements ideas from MATH 6915, MATH 6980, MATH 6981, and studies foundations of topology from a variety of viewpoints (algebraic, categorical, logical, order theoretic, powerset theoretic, set theoretic, etc.). Emphasis on current literature and open questions. May be repeated with approval of graduate coordinator.
Prereq.: MATH 6915, MATH 6980, MATH 6981, or equivalent, or permission of graduate coordinator.

MATH 7025 Advanced Topics in General Topology 3 s.h.
Content varies with each offering, implements ideas from MATH 6915, MATH 6980, MATH 6981, and studies various topics in point-set topology. Emphasis on current literature and open questions. May be repeated with approval of graduate coordinator.
Prereq.: MATH 6980, MATH 6981, or equivalent, or permission of graduate coordinator.

MATH 7035 Advanced Topics in Lattice-Valued Topology 3 s.h.
Content varies with each offering. Implements ideas from MATH 6915, MATH 6980, MATH 6981, and studies topology from the standpoint of lattice-valued (fuzzy) subsets. Emphasis on current literature and open questions. May be repeated with approval of graduate coordinator.
Prereq.: MATH 6915, MATH 6980, MATH 6981, or equivalent, or permission of the graduate coordinator.

MATH 7045 Advanced Topics in Topological Analysis 3 s.h.
Content varies with each offering. Implements ideas from MATH 6915, MATH 6965, MATH 6966, MATH 6980, MATH 6981, and studies the overlap between topology and abstract analysis (topological games, topological groups, separate versus joint continuity, etc.). Emphasis on current literature and open questions. May be repeated with approval of graduate coordinator.
Prereq.: MATH 6915, MATH 6965, MATH 6980, MATH 6981, or equivalent, or permission of graduate coordinator.

MATH 7055 Seminar in Topology and Abstract Analysis 3 s.h.
Content varies with each offering. Implements ideas from MATH 6915, MATH 6930, MATH 6965, MATH 6980, MATH 6981, MATH 6984, and focuses on current research activities of seminar participants. Student registrants are expected to make at least one major presentation each month of the term. May be repeated with approval of graduate coordinator.
Prereq.: Permission of graduate coordinator.

Master of Science in Education in Counseling

Introduction

The counseling program prepares individuals as professional counselors in the areas of clinical mental health counseling, school counseling, college counseling and student affairs, and addiction counseling. Our program is designed to prepare graduates who have necessary knowledge, skills, and dispositions to best serve in mental health centers, schools, recovery centers, and colleges. Our program is exemplified by the quality and diversity of classroom instruction, field experiences, program options, students, faculty and the outstanding reputation of graduates in the community. The required core courses are those considered to represent basic knowledge and skills essential for professional counselors in all environments. The common CACREP core includes knowledge and skills in:

- Professional orientation and ethics
- Human growth and development
- Social and cultural diversity
- Helping relationships (e.g., counseling theory, counseling methods)
- Career development
- Group work
- Assessment
- Research and program evaluation

The Counseling Program also maintains the Community Counseling Clinic that provides free or reduced cost counseling services to residents of the Youngstown area. All students in the clinical, school, addiction and college counseling options take one practicum course and counsel clients via the clinic during their first practicum experience. We have a strong connection with alumni, program supervisors, agencies and schools, and community leaders who support the profession of counseling in the Youngstown area.
Welcome

Our program is designed to prepare graduates that have necessary knowledge, skills, and dispositions to best serve in mental health centers, schools, recovery centers, and colleges in the area. Our program seeks to meet the Addiction Counseling, Clinical Mental Health Counseling, School Counseling, College Counseling & Student Affairs needs of Northeast Ohio, Western Pennsylvania and other areas of the state/country.

We are CACREP accredited and nationally awarded · 2015 ACES Outstanding Counselor Education Program Award and the 2014 NCACES Innovative Counselor Education Program Award. Our program is exemplified by the quality and diversity of classroom instruction, field experiences, program options, students, faculty and the outstanding reputation of graduates in the community. We have a 50 year history and over 2000 master’s degree graduates who have served the area as licensed professional clinical counselors, licensed/certified school counselors, licensed/certified chemical dependency counselors, student affairs professionals, professors, agency directors, and public servants. We have a strong connection with alumni, program supervisors, agencies and schools, and community leaders who support the profession of counseling in the Youngstown area. Master’s students will find a unique educational experience that prepares them for employment and/or advanced study in Counseling.

Program Director

For specific questions about the Master of Science in Education Counseling program, please contact the program director:

Jake J. Protivnak, Ph.D.
Professor
Department of Psychological Sciences and Counseling
(330) 941-1936
jprotivnak@ysu.edu

Addiction Counseling

The Addiction Counseling Program prepares students to work in a variety of community settings, including addiction/recovery centers, residential/community mental health centers, hospitals, employee assistance programs, and private practice. Students are taught to diagnose and treat mental and emotional disorders using a variety of interventions and methods. Students within this program focus on all areas of addiction including drug and alcohol, gambling, sexual, and other process addiction. The Addiction Counseling Program is currently accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP) under the 2009 standards for Community Counseling programs as a Community Counseling program. The CACREP 2009 standards provide a new CACREP specialty in Addiction Counseling. Completion of this program will satisfy the educational portion of the requirements for Professional counselor and Professional Clinical Counselor licensure by the Ohio Counselor, Social Worker, and Marriage and Family Therapist Board. In addition to the 63 semester hours of coursework, students complete experiential activities early in the program, a practicum, and a 600-hour internship in one of a variety of addiction settings in Northeast Ohio or Western Pennsylvania.

Clinical Mental Health Counseling

The Clinical Mental Health Counseling Program prepares students to work with children, adolescents, and/or adults and are employed in a variety of settings, including:

- community mental health centers
- hospitals
- addiction/recovery centers
- employee assistance programs
- private practices

Students are taught to diagnose and treat mental and emotional disorders using a variety of interventions and methods. Students are also taught ways to facilitate clients’ growth and wellness, and how to help people live optimally as they move through developmental changes. The Clinical Mental Health Counseling program is currently accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). A completed 600-hour internship in an appropriate community setting is required. Students interested in clinical mental health counseling complete a 60-semester-hour curriculum that is recognized by the state of Ohio’s Counselor, Social Worker, and Marriage and Family Therapist Board. The curriculum enables graduates to pursue Ohio Professional Counselor licensure and Professional Clinical Counselor licensure. Students seeking counseling licensure in other states, such as Pennsylvania, have the responsibility to ensure that they meet the requirements of those particular states.

School Counseling

The School Counseling option prepares students to work in public or private K-12 education settings. The program is designed to help students with or without teaching backgrounds to support the academic, career, and personal/social development of all students within a school system. The program has an urban focus and seeks to prepare students who understand the impact of poverty and culture on disenfranchised populations. The School Counseling program is currently accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). The program meets the education requirements for school counselor licensure in the state of Ohio. Students seeking school counselor licensure who do not have teacher certification in Ohio must have completed an approved school counseling program with a one-year induction process. Students must also pass the school counseling specialty portion of the Praxis Exam administered by Educational Testing Service for the State of Ohio or any other state required standardized testing. In addition to the 54 semester hours of coursework, students complete experiential activities early in the program, a practicum, and a 600-hour internship in one of a variety of school counseling settings in Northeast Ohio or Western Pennsylvania. Students seeking school counselor licensure/certification in other states, such as Pennsylvania, have the responsibility to ensure that they meet the requirements of those particular states.

College Counseling and Student Affairs

The College Counseling & Student Affairs program option prepares entry level college counselors and student affairs practitioners with the knowledge, skills, and practical experiences to facilitate the learning and development of college students. Preparation is guided by an understanding of college counseling and student affairs history and research, college student development theory, legal and ethical issues, college student diversity, current issues, administrative and leadership components, assessment practices, and an understanding of the dynamic nature of higher education. The College Counseling and Student Affairs program is currently accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP). Graduates from the College Counseling & Student Affairs program option pursue careers as professionals at college and universities across the country. Individuals who complete the 54 hour non-licensure options are prepared to work in a host of functional areas in higher education such as: housing, admissions, advising, career centers, international centers, diversity and inclusion centers, etc.). Recent graduates have been:

- academic advisors
- career services coordinators
- international recruiters
- residence directors
- area coordinators
- directors of residence life

For more information visit our Department website (https://ysu.edu/academics/beeghly-college-education/counseling-msed/).
• directors of student activities
• faculty members

Individuals who complete the 66 hour licensure option are prepared to work with college students in community mental health centers, hospitals, addiction/recovery centers, employee assistance programs and private practices. Individuals are taught to diagnose and treat mental and emotional disorders using a variety of interventions and methods. Completion of the 66 semester hour licensure track will satisfy the educational portion of the requirements for licensure as a Professional Counselor and a Professional Clinical Counselor by the Ohio Counselor, Social Worker, and Marriage and Family Therapist Board. Individuals complete experiential activities early in the program, a practicum, and a 600-hour internship in one of a variety of college and university settings in Northeast Ohio or Western Pennsylvania.

**Mission**

The mission of the Counseling Program is to educate students, and to help them develop into counselors and related professionals who are sensitive to the impacts of human development, culture, and context upon students and consumers of counseling services; who are caring and compassionate counselors and people; who are self-reflective; who promote opportunity and social justice for the impoverished urban and rural populations; and, who are committed to empowering consumers of counseling services to thrive, and to achieve their fullest potential.

The Counseling Program advocates equality of opportunity for all persons. The curriculum and all educational experiences are designed to educate counselors in understanding and applying various counseling methods and techniques to aid a multicultural and diverse population with psychological, educational, vocational, and personal concerns. The Counseling Program fosters a learning environment that is challenging for both personal and professional development, humane in its emphasis upon respect for the dignity and worth of the individual, and realistic through its emphasis upon integration of academic, clinical, and field-based learning.

Program faculty are involved in scholarship, and university, professional, and community service, and to use those involvements to mentor students, to enhance students’ learning experiences, to serve the community, the counseling profession, and consumers of counseling services who reside in northeast Ohio.

**Accreditation**

The Counseling Program emphasizes high standards of professional competence. The Counseling Program continues to remain committed to its stated mission through ongoing accreditations by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), and National Council for Accreditation of Teacher Education (NCATE). The Counseling Program also emphasizes ethical practice and keeps with state and national standards for certification and licensure for practice in educational, mental health and social service environments. Department programs have full approval by the Ohio Counselor, Social Worker, and Marriage and Family Therapists Board (OCSWMFT), and the Ohio Department of Education (ODE). The Department engages in ongoing program development and refinement based on accrediting bodies’ and licensure boards’ developments and recommendations, and sensitivity to licensure requirements and legal and ethical issues is a priority.

Our program is fully accredited by CACREP through 2023. Our last site visit was December 4, 2014 and we will have our next campus visit prior to the date of our next accreditation review in 2023.

**Admission Requirements**

Students from a variety of undergraduate majors (i.e. psychology, social work, education, communication, sociology, religion, philosophy, business, general studies, etc.) may pursue a master’s degree in counseling. Undergraduate and/or graduate grade point average, a letter of intent, letters of recommendation, and a required interview are important factors in determining the admissibility of an applicant to the counseling degree program. Applicants will be interviewed by members of the Counseling Admissions Committee and must meet the standards prescribed in the counseling program’s admission policies. The following are the admission requirements:

• Applicants must have earned above a 2.7 grade-point average. (If an applicant’s GPA is slightly below the minimum required, an applicant may include a GRE or MAT score to have their application reviewed.)
• Letter of Intent (approximately 4 pages double-spaced) with response to the following items:
  • What factors are motivating you to pursue a masters degree in Counseling at this time?
  • Please give an example of when you have determined to make desired changes in your life. What motivated you to seek this change and what obstacles did you overcome?
  • What do you believe are the most important counseling skills for helping a culturally-different individual?
• The Counseling Program offers four (4) options; Addiction Counseling, Clinical Mental Health Counseling, School Counseling, and College Counseling/Student Affairs. Which Counseling Program option(s) are you most interested in pursuing? What is your motivation to specialize in this area and what type of work would you like to be doing in 5 years?
• Three Letters of Reference or Reference forms, at least two of which should be prepared by current or former faculty
• Official transcripts of all undergraduate or graduate work completed
• Counseling Interview
• Application Deadlines:
  Fall: June 15th
  Spring: October 15th
  Summer: March 15th

**Graduate Faculty**

**Kristin L. Bruns**, Ph.D., Assistant Professor
Student affairs; college counseling; suicide prevention; protective factors

**Victoria E. White Kress**, Ph.D., Professor
Self-injurious behavior; complex psychological trauma; child abuse, domestic violence, rape/sexual trauma survivors; DSM; strength-based/creative counseling interventions

**Don Martin**, Ph.D., Professor
Academic and social skills among students of poverty; neuropsychology rehabilitation of stroke and CNS disorders; sports psychology with emphasis on D1 athletes

**Kenneth L. Miller**, Ph.D., Professor
Measurement of cultural bias and discrimination; child abuse; technology use in clinical supervision; gender equity

**Jake J. Protivnak**, Ph.D., Professor
Counselor education; supervision; adolescent/college student interventions

Students are required to complete appropriate coursework for their program option, including satisfactory completion of the counseling comprehensive examination prior to beginning their field placements. Coursework related to specialized cognate areas (e.g., electives and/or thesis) serve to enhance each program option.

Twelve semester hours of internship are required. Since this requirement entails 20 hours per week at the internship site, students who are employed full time may need to arrange for accommodations with their employers to fulfill this requirement.
Addiction Counseling Program Curriculum

1. Internship placement involves a minimum of 600 clock hours completed over two semesters. COUN 7002 Clinical Mental Health Counseling Practicum 2 is to be completed the semester immediately prior to beginning the internship. Students are to apply for their field placement for the fall or summer semesters no later than the fourth week of the spring semester. (Application forms are online and should be submitted to the internship coordinator.) If a student would like to begin his or her field placement in the spring semester, the student should apply no later than the fourth week of the fall semester. Students who fail to submit their field placement application form by the deadline will not be permitted to complete their field placement during the specified semester. For further information refer to the appropriate Fieldwork Handbook.

2. Not all courses are offered every semester. It is the student’s responsibility to carefully plan his or her program of study in order to meet all prerequisite course and graduation requirements.

3. All candidates are required to purchase a Task Stream account to complete the critical task for each course which is essential for the CACREP accreditation.

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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>COUN 6920</td>
<td>Orientation and Ethical Issues in Clinical Mental Health Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6900</td>
<td>Counseling Methods and Practice</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6902</td>
<td>Theory and Foundation of Addictions Counseling</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6903</td>
<td>Addictions Counseling: Treatment and Intervention</td>
<td>3</td>
</tr>
<tr>
<td>COUN 6962</td>
<td>Counseling Theory</td>
<td>3</td>
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<tr>
<td>COUN 6940</td>
<td>Human Growth and Development</td>
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<td>COUN 6964</td>
<td>Appraisal Techniques in Counseling</td>
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<td>COUN 6968</td>
<td>Research in Counseling</td>
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<td>COUN 6972</td>
<td>Career Counseling</td>
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<tr>
<td>COUN 6973 &amp; 6973L</td>
<td>Group Counseling Theory and Practice and Guided Group Counseling</td>
<td>3</td>
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<td>COUN 6976</td>
<td>Social and Cultural Issues in Counseling</td>
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<td>COUN 6980</td>
<td>Diagnosis of Mental Disorders</td>
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<td>Diagnosis and Treatment of Children and Adolescents</td>
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<td>COUN 7001</td>
<td>Counseling Practicum 1</td>
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<td>COUN 7031</td>
<td>Clinical Psychopathology and Treatment</td>
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<tr>
<td>COUN 6991</td>
<td>Family Systems Counseling</td>
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Elective (Select one of these courses)

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<tbody>
<tr>
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<td>COUN 7040</td>
<td>Principles and Techniques in Counseling Supervision</td>
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<td>COUN 7003</td>
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Internship

<table>
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<tbody>
<tr>
<td>COUN 7010</td>
<td>Clinical Mental Health Counseling Internship Seminar (Two semesters) Concurrent with COUN 7020</td>
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<tr>
<td>COUN 7020</td>
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Total Semester Hours 63

Comprehensive examination prerequisites

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<tr>
<td>COUN 6900</td>
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<td>COUN 6968</td>
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Clinical Mental Health Counseling Program Curriculum

1. Internship placement involves a minimum of 600 clock hours completed over two semesters. COUN 7002 Clinical Mental Health Counseling Practicum 2 is to be completed the semester immediately prior to beginning the internship. Students are to apply for their field placement for the fall or summer semesters no later than the fourth week of the spring semester. (Application forms are online and should be submitted to the internship coordinator.) If a student would like to begin his or her field placement in the spring semester, the student should apply no later than the fourth week of the fall semester. Students who fail to submit their field placement application form by the deadline will not be permitted to complete their field placement during the specified semester. For further information refer to the appropriate Fieldwork Handbook.

2. Not all courses are offered every semester. It is the student’s responsibility to carefully plan his or her program of study in order to meet all prerequisite course and graduation requirements.

3. All candidates are required to purchase a Task Stream account to complete the critical task for each course which is essential for the CACREP and CAEP accreditation.

<table>
<thead>
<tr>
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<td>COUN 6992</td>
<td>Theory and Foundation of Addictions Counseling</td>
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<td>COUN 6903</td>
<td>Addictions Counseling: Treatment and Intervention</td>
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Elective (Select three of these courses)

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<td>Clinical Mental Health Counseling Internship Seminar (Two semesters) Concurrent with COUN 7020</td>
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<td>COUN 7020</td>
<td>Field Experience Supervision Concurrent with COUN 7010</td>
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Total Semester Hours 60
Comprehensive examination prerequisites

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<td>Group Counseling Theory and Practice &amp; 6973L</td>
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<td>COUN 6980</td>
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School Counseling Program Curriculum

1. Internship placement involves a minimum of 600 clock hours completed over two semesters. COUN 7007 School Counseling Practicum 2 is to be completed in the fall semester immediately prior to beginning internship. Students are to apply for their field placement for the fall or summer semesters no later than the fourth week of the spring semester. (Application forms are online and should be submitted to the internship coordinator.) Students who fail to submit their field placement application form by the deadline will not be permitted to complete their field placement during the specified semester. For further information refer to the appropriate Fieldwork Handbook.

2. Internships must be completed in approved educational settings. In order to provide a comprehensive experience, Practicum II/Internship are only offered beginning in the fall semester of the final year in the program. This experience is comprised of 750 supervised hours in an approved setting in an August through June format.

3. Not all school counseling courses are offered every semester. Students are responsible for carefully planning their programs of study in order to meet all prerequisite course and graduate requirements.

4. Students are required to purchase a Task Stream account to complete the critical tasks for each course which is essential for CACREP and CAEP.

<table>
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<tr>
<th>COURSE</th>
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<td>COUN 6961</td>
<td>Orientation and Ethical Issues in School Counseling (take within the first 3 semesters)</td>
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Elective (Select two of these courses) 6

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<td>COUN 7003</td>
<td>Counseling Children and Adolescents</td>
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<td>COUN 7018</td>
<td>Diagnosis and Treatment of Children and Adolescents</td>
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Internship

COUN 7009 School Counseling Internship Seminar (Two semesters) Concurrent with COUN 7020 6

College Counseling and Student Affairs Program Curriculum

1. Internship placement involves a minimum of 600 clock hours completed over two semesters. COUN 7004 Practicum in Student Affairs (for non-licensure students) and COUN 7002 (for licensure students) is to be completed immediately prior to beginning internship. Students are to apply for their field placement (note: application forms are in the central office and should be turned in to the internship coordinator) for the fall or summer semesters no later than the fourth week of the spring semester.

2. Not all courses are offered every semester. It is the student's responsibility to carefully plan his/her program of study in order to meet all prerequisite course and graduation requirements.

<table>
<thead>
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<td>COUN 6900</td>
<td>Counseling Methods and Practice</td>
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<td>COUN 6930</td>
<td>College Counseling and Student Mental Health</td>
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<td>COUN 6962</td>
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<td>COUN 7021</td>
<td>Legal and Ethical Issues in Student Affairs</td>
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<td>COUN 7023</td>
<td>College Student Development</td>
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<td>COUN 7026</td>
<td>Orientation and Functions of Student Affairs (take within the first 3 semesters)</td>
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<td>COUN 7044</td>
<td>Leadership and Administration in Student Affairs</td>
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<tr>
<td>COUN 7046</td>
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Practicum/Internship 1

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<td>COUN 7005</td>
<td>Student Affairs Internship Seminar</td>
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Ohio Licensure Option 2

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<tr>
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<td>COUN 7031</td>
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<tr>
<td>COUN 7001</td>
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Elective (Select one of these courses) 2

COUN 7009 School Counseling Internship Seminar (Two semesters) Concurrent with COUN 7020 6
Prereq.: Comprehensive examination prerequisites

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<td>or COUN 6920</td>
<td>Orientation and Ethical Issues in Clinical Mental Health Counseling</td>
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<td>COUN 6900</td>
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<td>or COUN 6964</td>
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<tr>
<td>COUN 6976</td>
<td>Social and Cultural Issues in Counseling</td>
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</table>

Total Semester Hours 66

Learning Outcomes
1. Students will demonstrate an understanding of the curriculum content of CACREP’s eight core courses
2. Students will demonstrate the ability to use foundational counseling techniques/ micro-skills
3. Students will demonstrate knowledge of, and the ability to apply ethical standards and engage in ethical counseling and professional practices
4. Students will demonstrate knowledge of, and skills related to counseling diverse populations
5. Demonstrate a professional identity, as well as professionalism, and fitness to practice as a professional counselor
6. Students will demonstrate knowledge and skills specific to their program areas (i.e., Clinical Mental Health, School, Student Affairs)

Graduate Faculty
COUN 5821 Seminar in Guidance and Counseling 1-3 s.h.
Study of selected topics chosen by staff, e.g. career guidance, counseling process, and other contemporary issues in school personnel work.
Prereq.: Upper-division standing.

COUN 5822 Seminar in Guidance and Counseling 1-3 s.h.
Study of selected topics chosen by staff, e.g. career guidance, counseling process, and other contemporary issues in school personnel work.
Prereq.: Upper-division standing.

COUN 5895 Counseling Workshop 1-3 s.h.
Provides an introduction to basic counseling principles with special focus on those factors encountered in the provision of health and wellness-related services.
Prereq.: Upper-division standing.

COUN 7004 Practicum in Student Affairs and COUN 7005 Student Affairs Internship Seminar will be the practicum and internship courses for non-licensure students.

Ohio Licensure Option will include an additional 15 semester hours of listed coursework, one electives, and the CMHC practicum/internship coursework. Specifically, licensure students will utilize COUN 7002, COUN 7010, and COUN 7020 for practicum and internship. In addition, COUN 7021 and COUN 7046 will not be required for licensure students.

Comprehensive examination prerequisites

Prereq.: Upper-division standing.

COUN 6900 Counseling Methods and Practice 3 s.h.
COUN 6940 Human Growth and Development 3 s.h.
COUN 6962 Counseling Theory 3 s.h.
COUN 7046 Assessment in Student Affairs Practice 3 s.h.
COUN 6968 Research in Counseling 3 s.h.
COUN 6972 Career Counseling 3 s.h.
COUN 6973 Group Counseling Theory and Practice 3 s.h.
COUN 6976 Social and Cultural Issues in Counseling 3 s.h.

COUN 5823 Career Education and Career Guidance 2 s.h.
Study of public school career education and career guidance programs; the career education continuum, legislation relating to vocational programs, historical development, and principles of vocational education and vocational guidance. Also a survey of economic services: distributive education, human resources, programs, and placement.
Prereq.: Upper-division standing.

COUN 5825 Group Processes in the School 2 s.h.
An introduction to group activities applicable to the needs of students in the school setting. Includes the study of group processes and group dynamics for social and personal problem solving as well as in the general area of individual and group behavior. Also a study of programs that provide for counselor-teacher cooperation in the development of groups in the classroom.
Prereq.: Upper-division standing.

COUN 5879 Talented Students and Their Families 3 s.h.
A study of consulting and referral practices related to the developmental, social and personal difficulties often experienced by gifted/talented students and their families. Includes a field study component.
Prereq.: Upper-division standing.

COUN 5965 Counseling Workshop 1-5 s.h.
A workshop designed to examine contemporary topics in the field.

COUN 5966 Guidance Counseling Workshop 1-3 s.h.
A workshop designed to examine contemporary topics in the field.

COUN 6900 Counseling Methods and Practice 3 s.h.
Methods and practices of professional counseling relative to relationship, goals, process, and documentation. Relevant ethical guidelines are stressed. Includes experiential skill training. For counseling majors or by permission of Department of Counseling.

COUN 6902 Theory and Foundation of Addictions Counseling 3 s.h.
This course provides students with an introduction to the field of professional counseling and the foundations of community counseling. The course addresses the following topics: history, philosophy, cultural dynamics, advocacy, consultation, technology applications, and trends in professional and community counseling. The counseling profession’s ethical standards are also addressed with an emphasis on the ACA code of ethics and counselor ethical decision making processes. Requirements differ for undergraduate and graduate students.

COUN 6903 Addictions Counseling: Treatment and Intervention 3 s.h.
Knowledge, skills, and practice related to chemical dependency and process addictions. There will be emphasis on assessment, models for treatment, and skills necessary to work in addiction/prevention programs in diverse settings.

COUN 6904 Crisis Counseling 3 s.h.
An overview of the professional concerns and issues school psychologists face working in public school systems. Orientation and preparation for the supervised internship experience will be discussed; future responsibilities as a professional and staff consultant. Legal and ethical issues pertaining to the role of a school psychologist will be reviewed.
COUN 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.

COUN 6910  Human Development and Family Systems Counseling  3 s.h.
The purpose of this course is to provide students with the content knowledge of human development and systems theory in order to become effective in helping individuals and families change. Major theoretical approaches to life span development and family counseling will be addressed.

COUN 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).

COUN 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.

COUN 6920  Orientation and Ethical Issues in Clinical Mental Health Counseling  3 s.h.
This course provides students with an introduction to the field of professional counseling and the foundations of community counseling. The course addresses the following topics: history, philosophy, cultural dynamics, advocacy, consultation, technology applications, and trends in professional and community counseling. The counseling profession's ethical standards are also addressed with an emphasis on the ACA code of ethics and counselor ethical decision-making processes.

COUN 6930  College Counseling and Student Mental Health  3 s.h.
This course provides students with an overview of the field of college counseling and the foundations of community counseling. The course addresses the following topics: history, philosophy, theories, cultural dynamic, technology applications, assessment and evaluation responsibilities, legal and ethical issues, and current trends in college counseling settings. The college counselor's role, function, and professional identity as a student advocate, program coordinator, individual/group counselor, and prevention specialist is addressed.

COUN 6940  Human Growth and Development  3 s.h.
The goal of this course is to help students develop an understanding of the theories and concepts associated with human growth and development, specifically in regard to how they relate to counseling. Students will develop an understanding of development through life through a study of research and discussion of development theories. An understanding of the biosocial aspects of development specifically using Erikson's and other theories will occur. The application of this information will be stressed due to its crucial role in the development of determining normal versus abnormal as well as the utilization of appropriate treatment goals and plans.

COUN 6961  Orientation and Ethical Issues in School Counseling  3 s.h.
This course provides students with an introduction to the field of professional counseling, and the foundations of school counseling. The course addresses the following topics: history, philosophy, cultural dynamics, advocacy, consultation, technology applications, classroom management issues, and trends in professional and school counseling. The counseling profession's ethical standards are also addressed with an emphasis on the American Counseling Association (ACA) and American School Counselor Association (ASCA) code of ethics, and counselor ethical decision-making processes.

COUN 6962  Counseling Theory  3 s.h.
Basic principles of counseling in an educational context. Development of procedural bases for counseling and educationally oriented counseling theory. Ethics and limitations involved in counseling practices.

COUN 6963  Occupational and Educational Information in Guidance  2 s.h.
Principles of career development and use of educational and occupational information resources in the guidance program. Lecture and discussion are used to explore occupational structure of the United States, sources of educational and occupational information including community resources, and the collecting, classifying, filing, and organization of educational and occupational information for use in the guidance program.

COUN 6964  Appraisal Techniques in Counseling  3 s.h.
Overview of the administration, scoring, and interpretation of standardized tests and measures used in counseling practice with specific focus and supervised practice in the administration and interpretation of standardized ability, interest, intelligence, and aptitude tests.

COUN 6965  Applied Testing in Career Counseling  2 s.h.
Administration, scoring, and interpretation of selected assessment tools and their application to career counseling. Prereq.: COUN 6964.

COUN 6966  Research in Counseling  3 s.h.
The study and application of quantitative and qualitative research in counseling with statistical application component.

COUN 6967  Administration of Personnel and Guidance Services  2 s.h.
A comprehensive study of the dynamic qualities inherent in planning, management, functioning, and structuring of personnel and guidance services in public schools.

COUN 6970  Counseling and Social Services in the Schools  2 s.h.
Examines the scope and comprehensive developmental programs for counseling and social services in the schools with consideration of need assessment and development of such programs.

COUN 6971  Human Relations for the Classroom  2 s.h.
The course focuses on skill development in human relations. These skills are studied and integrated with cognitive skill development in the classroom, classroom planning and organization conflict resolution, and coping with behavior problems and motivation. Application is made to the classroom environment.

COUN 6972  Career Counseling  3 s.h.
Theories of vocational choice, vocational success and satisfaction, decision making, and vocational testing. Career counseling as related to the economic and social context.

COUN 6973  Group Counseling Theory and Practice  2 s.h.
Theories pertaining to group dynamics, process, interaction, consultation, and counselor intervention. For counseling majors or by permission of Department of Counseling. Prereq. or concurrently: COUN 6962.

COUN 6973L  Guided Group Counseling  1 s.h.
Supervised experience in the use of interventions appropriate to stages of group development. Emphasis will be placed on promoting self-awareness, interpersonal skills, and group skills and techniques. Course is taken concurrently with COUN 6973.

COUN 6975  Counselor Consultation and Prevention  3 s.h.
This course is a study of the theoretical models of consultation and prevention. Techniques for implementation of consultation and prevention in schools, agencies, and higher education settings will be presented.

COUN 6976  Social and Cultural Issues in Counseling  3 s.h.
Counseling theory and techniques related to social and economic change, ethnic groups, subculture, issues of sexuality and gender, urban and rural societies, cultural mores, the use of leisure time, and differing life patterns.
COUN 6977  College Admission Counseling  3 s.h.
This course provides practical information on advising student and parents about the college admission process. The course is designed to promote career advisement knowledge and skills related to: consultation with parents, drop out prevention, student motivation, academic/career preparation, assessment, application process, financial aid, and interventions to enhance student and parents decisions regarding college admission process.

COUN 6980  Diagnosis of Mental Disorders  3 s.h.
Overview of Diagnostic and Statistical Manual of Mental Disorders, fourth edition (DSM-IV-TR) format, with emphasis placed on the development of diagnostic skills for the major mental and emotional disorders commonly encountered in social service, educational, and community counseling agencies.

COUN 6982  Educational Leadership in Primary and Intervention Strategies  2 s.h.
This course will identify mental health issues that impact individuals, families, and the educational system. Prevention and intervention strategies will be explored, as well as issues and procedures of referral.

COUN 6990  Independent Study  1-3 s.h.
Individual investigation of advanced topics under guidance of selected staff. Permission of instructor required. Special approval required.

COUN 6991  Family Systems Counseling  3 s.h.
Systems theory as applied to family functioning. Major theoretical approaches to family counseling, including ethics and techniques, will be addressed.

COUN 6995  Trauma and Crisis Counseling  3 s.h.
This course features an overview of the impact of traumatic events and crises on individuals, families, and communities. Models and theories of intervention and response are addressed. The psychological impacts and needs of those who have experienced diverse trauma experiences will be examined (e.g., victims of child abuse, interpersonal partner violence, sexual assault). Contemporary issues associated with trauma and crisis counseling will be explored (e.g., crisis assessment, vicarious trauma and countertransference, cultural and legal/ethics issues related to trauma counseling).

COUN 7001  Counseling Practicum 1  3 s.h.
Supervised individual counseling practice with volunteer clients. Focus upon process, clarification, and resolution of counseling goals and counselor self-awareness/evaluation. Students are required to attend a scheduled orientation in the Community Counseling Clinic prior to the first class.

COUN 7002  Clinical Mental Health Counseling Practicum 2  3 s.h.
Supervised individual and group counseling practices in settings appropriate to student’s programs. Requires field placement of 150 hours. Special approval required.

COUN 7003  Counseling Children and Adolescents  3 s.h.
Various theories and respective techniques for counseling and psychotherapy with children and adolescents. Research concerning the efficacy of such approaches will also be studied. Special approval required.

COUN 7004  Practicum in Student Affairs  3 s.h.
This course will provide an orientation to the student services division, as well as offering students the opportunity to gain experience in a higher education setting. The program component will include individual and group supervision, as well as supervised field experience.

COUN 7005  Student Affairs Internship Seminar  3 s.h.
This course will provide a weekly supervision and 600 hours of supervised field experience for student affairs students. The internship supervision is designed to promote the integration of theory and practitioner experiences for students in a higher education setting and to help students prepare for the transition to a professional student affairs position following completion of the degree.

COUN 7006  Guidance in the Classroom  2 s.h.
Studies various factors important to a facilitative climate in the classroom and activities through which elementary counselors and teachers can provide these conditions. Considered as classroom management and discipline techniques based upon learning theory, implementation of democratic group structure for elementary school classrooms, and organized activities designed to promote the development of self-understanding and understanding of others in the child’s world. The course requires extensive reading and review of published materials designed for classroom guidance in addition to observation of classrooms and role playing experiences.

COUN 7007  School Counseling Practicum 2  3 s.h.
Supervised individual and group counseling practices in school counseling. Requires field placement of 150 hours. Special approval required.

COUN 7008  Assessment for Educational Decision Making  2 s.h.
Assessment procedures used for making leadership decisions in the educational setting. Emphasis on community assessment, identifying high-risk students, and the development of guidance and state testing programs.

COUN 7009  School Counseling Internship Seminar  3 s.h.
Supervised internship in approved school counseling programs. May be repeated. For counseling majors. Coreq: COUN 7020.

COUN 7010  Clinical Mental Health Counseling Internship Seminar  3 s.h.
Supervised internship in approved community agencies offering counseling and other mental health services. May be repeated. For counseling majors. 3 s.h.

COUN 7013  Topical Seminar in Counseling  1-3 s.h.
The course is for practicing counselors and counselor trainees and will include a survey of literature in counseling, contemporary issues, individual and small group study of special problems chosen by, for example, research in counseling, counselor values, and the counseling process; student values and drug abuse; team approach to counseling services; etc. May be repeated to a maximum of 10 semester hours.

COUN 7014  Topical Seminar in Counseling  1-3 s.h.
The course is for practicing counselors and counselor trainees and will include a survey of literature in counseling, contemporary issues, individual and small group study of special problems chosen by, for example, research in counseling, counselor values, and the counseling process; student values and drug abuse; team approach to counseling services; etc. May be repeated to a maximum of 10 semester hours.

COUN 7015  Topical Seminar in Counseling  1-3 s.h.
The course is for practicing counselors and counselor trainees and will include a survey of literature in counseling, contemporary issues, individual and small group study of special problems chosen by, for example, research in counseling, counselor values, and the counseling process; student values and drug abuse; team approach to counseling services; etc. May be repeated to a maximum of 10 semester hours.

COUN 7018  Diagnosis and Treatment of Children and Adolescents  3 s.h.
Overview of Diagnostic and Statistical Manual of Mental Disorders, fifth edition, text revision (DSM-V-TR) with an emphasis placed on the development of diagnostics skills for the major mental disorders commonly encountered in social service, educational, and community counseling agencies. The course will additionally focus on the development of diagnostic skills and treatment strategies for working with children and adolescents.
COUN 7019  School Counseling Program Development  3 s.h.
This course provides students with a comprehensive framework for planning, designing, implementing, evaluating, and enhancing content-based and comprehensive developmental counseling programs. The course is designed to promote knowledge and skills related to: prevention and crisis intervention strategies; use of a student information system to collect, analyze, and evaluate data in order to improve student outcomes; integration of the school counseling program into the total school curriculum to assist preK-12 students.

COUN 7020  Field Experience Supervision  3 s.h.
University faculty supervised internship experience in selected counseling-related settings. Students are supervised by the university-based supervisor during the internship field experience. Faculty provide regular weekly feedback on intern participation in field experience, conduct field-based supervision visits, and evaluate counseling skills delivered at the field site.
Prereq.: COUN 7002, 7004, or 7007 (special approval required).
Coreq.: COUN 7005, 7009, or 7010.

COUN 7021  Legal and Ethical Issues in Student Affairs  3 s.h.
This course is designed to provide graduate students with an introduction to the legal and ethical issues which affect higher education and student affairs practice. The primary goal of this course is to provide an exploration and understanding of legal issues pertaining to the various constituents of colleges and universities (students, faculty, and administrators).

COUN 7023  College Student Development  3 s.h.
The purpose of this course is to provide an introduction to the field of college student and human development across the life span. Students will be exposed to a range of human development theories and student characteristics that offer insight into the processes of student learning, growth, and development. Special focus will be directed toward understanding patterns of growth and change during the college years for different student subgroups and the implications of these changes for the practices of student affairs and college counseling.

COUN 7026  Orientation and Functions of Student Affairs  3 s.h.
The primary purpose of this course is to provide students with a comprehensive introduction to the functional areas of student affairs. The application of a counseling-based knowledge and skills for student affairs practitioners will be emphasized.

COUN 7028  Advanced Counseling Theory and Treatment Seminar  3 s.h.
Research and discussion on selected counseling theories (e.g., Adler, Rogers, Ellis, Carkhuff, Berne) chosen by staff. May be repeated.

COUN 7029  Professional Issues in Student Affairs  3 s.h.
The purpose of this course is to expose graduate students to contemporary issues shaping student affairs practice. Topics will vary but will focus on the development of knowledge and skills in emerging areas relevant to professionals in student affairs (e.g., enrollment management, retention, assessment, finance and budget, grant writing).

COUN 7030  Human Relations Training for School Personnel  2 s.h.
Designed to improve the interpersonal relationships of administrators, counselors, teachers, and other professional staff. Objectives include examination of personal communication styles, the effect of the individual on task groups, and increasing leadership potential. For counseling majors or permission of Department of Counseling.

COUN 7031  Clinical Psychopathology and Treatment  3 s.h.
Counseling theories of abnormal behavior and mental disorders throughout the total life cycle. Specific personality theories and examinations of empirically-derived treatments will be included.
Prereq.: COUN 6962.

COUN 7032  Clinical Intellectual Testing  3 s.h.
Supervised practice in the administration and interpretation of standardized intelligence and aptitude tests.
Prereq.: COUN 6964.

COUN 7033  Personality Objective/Projective Assessment  3 s.h.
Supervised practice in the administration and interpretation of standardized objective and projective measures of personality.
Prereq.: COUN 6964.

COUN 7034  Advanced Evaluation of Mental and Emotional Status  3 s.h.
This course provides an advanced overview of the administration and interpretation of intelligence and personality tests. The course is designed to assist the student in becoming aware of testing procedures, testing practices and professional issues concerning the topic of assessment and to provide the student with practical assessment skills applicable to counseling.
Prereq.: COUN 6964.

COUN 7036  Consultation and Educational Approaches to Prevention  2 s.h.
The study of consultation theory and models. Educational approaches to prevention of substance abuse, child abuse, family and marriage problems, etc. will be included.

COUN 7037  Counseling and Psychopharmacological Treatments of Mental and Emotional Disorders  3 s.h.
The study of pharmacological, behavioral, cognitive, and emotive strategies and techniques associated with the treatment of mental and emotional disorders commonly encountered in mental health settings.
Prereq.: COUN 6980 or COUN 7013A.

COUN 7038  Counseling with Couples  3 s.h.
Application of family systems theory to intervention and prevention strategies with couples.

COUN 7039  Administration and Supervision of Mental Health Services  2 s.h.
A comprehensive study of management, planning, function, personnel structuring, supervision, and counseling services in a mental health setting.

COUN 7040  Principles and Techniques in Counseling Supervision  3 s.h.
Theory and practice of counselor supervision. Includes practicum assignment in counselor education. For counseling majors only and by permission of Department of Counseling.
Prereq.: COUN 7010.

COUN 7041  Case Conceptualization, Treatment Planning, and Clinical Supervision  3 s.h.
The purpose of this course is to provide students with the advanced case conceptualization, treatment/planning intervention (24 hours) and theory/practice of supervision (24 hours). Includes 12 contact hours of supervision of practicum students at the YSU Counseling Program Community Counseling Clinic.
Prereq. or concurrent: COUN 7010.

COUN 7042  Administration and Organization in Higher Education  3 s.h.
The purpose of this course is to expose graduate students to the complex study of administrative practices and organizational theory in the context of examining campus environments. By developing an informed knowledge base regarding the multiple perspectives of organizations and campus environments, students will be better prepared to lead change in student affairs settings.

COUN 7044  Leadership and Administration in Student Affairs  3 s.h.
This course provides students with an opportunity to read, reflect, and integrate theories, concepts, and practices related to leadership and administration. Students will be challenged to reflect on their core values and principles. Students will see leadership through a new paradigm, and formulate their own philosophy of leadership. Students will be challenged to employ visionary leadership in the planning and implementation stage of change.

COUN 7046  Assessment in Student Affairs Practice  3 s.h.
The purpose of this course is to promote the understanding of assessment and program evaluation in enhancing practice. The course will focus on how to utilize assessment to improve practice and to demonstrate the effectiveness of programs, as well as to provide opportunities to effectively assess various dimensions of the college experience. By learning the usefulness and appropriateness of various assessment methodologies, the emerging practitioner will learn to provide evidence for effective practice.
The focus of the didactic and experiential course will be on identifying patterns of children's symptoms, repositioning of the therapist within the educational system context and learning various therapeutic techniques to use with families of children with disabilities or other mental health issues.

### Master of Science in Education—Educational Administration

#### Program Coordinator
Dr. Charles Vergon  
4103 Beeghly College of Liberal Arts, Social Sciences, and Education  
(330) 941-1574  
cbvergon@ysu.edu

#### Program Description
The Educational Administration program prepares reflective administrative practitioners who are capable of providing culturally responsive, vision-driven, managerial, and instructional leadership in public and nonpublic school settings (also see the Doctor of Education in Educational Leadership section.) Additional coursework is provided which leads to:

- Ohio administrative licensure as elementary principal for ages 3 through 12;
- middle school principal for ages 8 through 14;
- secondary principal for ages 10 through 21;
- administrative specialist in curriculum, instruction, and professional development; and
- superintendent.

In addition, the department offers programs for Pennsylvania administrative certification as principal for grades K–12 and the letter of eligibility for superintendent.

#### Admission Requirements
In addition to the minimum College of Graduate Studies admission requirements, Education Administration applicants should submit the following:

- Evidence that the applicant holds or is eligible for a professional teaching certificate or license.
- An undergraduate grade point average of 3.0 or above.
- For applicants with an undergraduate grade point average between 2.50 and 2.99, satisfactory scores on the Graduate Record Examination or on the Miller Analogies Test.
- The names and contact information (address, phone number, and email address) for three professional references.

#### Graduate Faculty
Jane Beese, Ed.D., Associate Professor  
Organizational leadership; economics of education; program evaluation

Charles Jeffords, Ed.D., Assistant Professor  
Administrative practices; school and community relations; school finance

Karen H. Larwin, Ph.D., Associate Professor  
Assessment; research design and methodology; statistics

A minimum of 30 semester hours is required for the degree. In addition to the following educational administration and foundations courses, students must successfully complete a comprehensive examination covering the educational administration courses listed under Special Notes.

### Master’s Degree

#### Introduction to School Leadership and Educational Organizations
This program introduces students to the realities of school leadership, providing them a broader vision and deeper understanding of educational policy and organizations and the role of the school leader in promoting effective instruction and continuous school improvement. It begins to transform their perspectives from that of a classroom teacher to one of an administrator. Other courses develop leadership knowledge and skills specific to building level operations, focusing on the role of principal in relation to staff and community, school safety and the administration of discipline, support programs and services for students with disabilities, and how legal and fiscal considerations shape and influence administrative decision making and the exercise of leadership.

Students must complete a minimum of 30 hours satisfying the following distributional requirements:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>EDAD 6915</td>
<td>Learning, Teaching, and Instructional Leadership</td>
<td>12</td>
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<tr>
<td>EDAD 6933</td>
<td>Educational Leadership and Organizational Change</td>
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<tr>
<td>EDAD 6936</td>
<td>Culturally Responsive Leadership</td>
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<tr>
<td>EDAD 7020</td>
<td>Human Resource Leadership</td>
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#### Specialty Administrative Courses

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>EDAD 6947</td>
<td>School Building Operations and Management</td>
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<tr>
<td>EDAD 6948</td>
<td>Data Driven School Improvement and Program Evaluation</td>
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<tr>
<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies</td>
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<tr>
<td>EDAD 6949</td>
<td>Legal and Ethical Issues in Public Administration</td>
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<tr>
<td>EDAD 6952</td>
<td>School Finance and Budget Planning Processes</td>
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<tr>
<td>EDAD 6954</td>
<td>Community Engagement and Collaborative Partnerships</td>
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</table>

**Total Semester Hours**: 30

#### Special Notes
Before being granted the degree, candidates must successfully complete a comprehensive examination covering leadership and administrative specialty courses.

This program provides no license in administrative areas. Students who are enrolled in or have the M.S. in Education in Educational Administration degree have the opportunity to enroll in additional courses leading to the Ohio principal license.1

All transfer students, including those seeking a master’s degree and those who hold a master’s degree, will be evaluated using the criteria listed previously. Students who have been evaluated through direct contact with the Ohio Department of Education should be aware that they must meet the criteria established by the Department of Teacher Education and Leadership Studies at YSU before the M.S. in Education in Educational Administration will be granted.

1 Completion of the minimum number of semester hours indicated for each program and any other Ohio or Pennsylvania Department of Education requirements must be achieved before recommendation for any license. Those seeking initial administrative licensure in the State of Ohio must also obtain a passing score on the state-prescribed administrative licensure exam for the license they seek.
Post-master’s Licensure Requirements

Candidates for an Ohio administrative license must be enrolled in or have completed the M.S. in Education degree in Educational Administration. Prior to enrolling in licensure coursework they must provide an updated professional resume and documentation from a licensed principal, superintendent, or other administrator where they work attesting to their skills, knowledge, professionalism, and leadership potential and agreeing to provide supervision in accordance with the clinical policies and procedures for YSU’s principal program.

Principal License (OHIO) (6 semester hours)

Elementary Principal License Grades PK-6

Middle School License Grades 4-9

Secondary Principal License Grades 5-12

The licensure coursework consists of four 1-credit clinical courses, in addition to a 2-credit course in Special Education Law. The clinical experience is designed to afford candidates the opportunity to apply the content knowledge from their course work and practice the skills necessary for effective leadership. Across the four courses, candidates observe and then carry out a range of administrative responsibilities including analyzing student performance, carrying out clinical supervision of teaching staff, writing a staff improvement plan, designing a HQ staff development program, creating a master schedule, participating in teacher hiring processes, administering student discipline, conducting school safety drills, and coordinating special education meetings and functions, among others. In addition, candidates design and implement an Integrated School Improvement Project addressing a real need in their school setting. Candidates and faculty participate in an interactive on-line clinical learning community spanning diverse and geographically dispersed clinical sites.

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 7022A and 7022B must equal 4 hours</td>
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<td>4</td>
</tr>
<tr>
<td>EDAD 7022A</td>
<td>Clinical Experience: The Principalship-Elementary (E) Middle (M) Secondary (S)</td>
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</tr>
<tr>
<td>EDAD 7022B</td>
<td>Clinical Experience: The Principalship-Elementary (E) Middle (M) Secondary (S)</td>
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<tr>
<td>Total Semester Hours</td>
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<td>6</td>
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</table>

Candidates must hold or qualify for a valid teacher certificate/license at the same level as the administrative license being sought. They must also have two years of successful teaching under a professional teaching license at the same level as the administrative license being sought. Before being recommended for licensure, candidates must have a passing score on the state-prescribed administrative licensure exam for the principalship. Individuals qualifying for licensure at the Elementary or Secondary level are also issued licensure at the Middle School level.

Administrative Specialist License

Administrative Specialist License in Curriculum, Instruction, and Professional Development

Master’s degree in educational administration, plus 18 hours of course work from the following list, which must include EDAD 7040 Clinical Practice for the Administrative Specialist:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>TCED 6922</td>
<td>Principles of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6934</td>
<td>Assessment and Accountability</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6936</td>
<td>Curriculum, Assessment, and Instruction to Improve Learning</td>
<td></td>
</tr>
<tr>
<td>SPED 6900</td>
<td>Issues, Trends &amp; Ethical, Legal and Professional Guidelines in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7014</td>
<td>Data Driven School Improvement and Program Evaluation (This course number has changed to EDAD 6948 and the title is now Data-based Decision Making and Program Evaluation)</td>
<td>3</td>
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<tr>
<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies (Change title to School Discipline and Student Support Services)</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 7040</td>
<td>Clinical Practice for the Administrative Specialist</td>
<td>3</td>
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</table>

Or a Master’s degree in curriculum at YSU, plus coursework as follows:

<table>
<thead>
<tr>
<th>COURSE</th>
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</thead>
<tbody>
<tr>
<td>EDAD 6615</td>
<td>Learning, Teaching, and Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6947</td>
<td>School Building Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6949</td>
<td>Legal and Ethical Issues in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6952</td>
<td>School Finance and Budget Planning Processes</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6954</td>
<td>Community Engagement and Collaborative Partnerships</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7022</td>
<td>Clinical Experience 2: The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7020</td>
<td>Human Resource Leadership</td>
<td>3</td>
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<tr>
<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6948</td>
<td>Data Driven School Improvement and Program Evaluation (Data-based Decision Making and Program Evaluation)</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7040</td>
<td>Clinical Practice for the Administrative Specialist</td>
<td>3</td>
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<tr>
<td>Total Semester Hours</td>
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<td>30</td>
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</tbody>
</table>

Candidates must qualify for/hold a valid professional teacher certificate/license and have two years of successful teaching under a professional teaching certificate/license. In addition, candidates must have completed the prescribed number of hours and have an official score report indicating a passing score on the state prescribed administrative licensure examination required for the license.

Superintendent License (OHIO)

Candidates must hold an administrative certificate or license issued upon the recommendation of YSU or the equivalent thereof as evaluated by the Department of Teacher Education and Leadership Studies at YSU, complete the following course sequence, and meet any other Ohio State Department of Education requirements.

The licensure coursework consists of three 1-credit clinical courses, in addition to four 3-credit courses. This model shifts the leadership focus from the micro (school site) to the macro (school systems) level and familiarizes prospective superintendents with systems knowledge and perspective on leadership in areas from educational governance to human resource administration to technology and facilities.

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>EDAD 7024</td>
<td>Collective Bargaining and Systems Issues in Human Resources Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7025</td>
<td>Educational Governance: Advanced Law and Policy Seminar</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7026</td>
<td>Technology and Facilities for Learning Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7035</td>
<td>The Superintendency and Evolving Ways of Looking at Leadership</td>
<td>3</td>
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<tr>
<td>EDAD 7050A and 7050B must equal 4 hours</td>
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<td>4</td>
</tr>
<tr>
<td>EDAD 7050A</td>
<td>Clinical Experience: Superintendency</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7050B</td>
<td>Clinical Experience: Superintendency</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Hours</td>
<td></td>
<td>16</td>
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</tbody>
</table>
PRINCIPAL CERTIFICATE K-12 (Pennsylvania)
Candidates must hold a Master's degree from an accredited program. The professional education program provides evidence that School Principal certification candidates demonstrate knowledge of and competence in working in the elementary and secondary public school settings, including completion of the 36 semester hours listed below, many of which are included in the typical master's degree in educational administration. They must also provide an official score report indicating:

- achieve a passing score on state licensure exam for principalship; and
- satisfy any other Pennsylvania Department of Education Requirements, plus:

Completion of 36 s.h. below (to extent not already taken as part of a master’s degree program):

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>EDAD 6931</td>
<td>Leadership in Educational Organizations: Theory to Best Practices</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6915</td>
<td>Learning, Teaching, and Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6936</td>
<td>Culturally Responsive Leadership</td>
<td>3</td>
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<td>EDAD 6947</td>
<td>School Building Operations and Management</td>
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<td>EDAD 7014</td>
<td>Data Driven School Improvement and Program Evaluation</td>
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<td>EDAD 6952</td>
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<td>EDAD 6955</td>
<td>Professional Development and Human Resources</td>
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<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies</td>
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<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
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<tr>
<td>EDAD 7022</td>
<td>Clinical Experience 2: The Principalship</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<td><strong>36</strong></td>
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The professional education program provides evidence that each certification candidate demonstrates knowledge and competencies that foster professionalism and ethical practices in school/community settings including:

1. Professional organizations, professional literature, resources and advocacy groups.
2. Integrity and ethical behavior, professional conduct as stated in Pennsylvania’s Code of Professional Practice and Conduct for Educators; and local, state, and federal laws and regulations.
3. Communicating effectively (orally and in writing) with students, colleagues, faculty, families, paraprofessionals, related service personnel, outside agencies and the community.
4. Recognizing the professional responsibilities of administrators’ and teachers’ roles as collaborators, team members, advocates, and service coordinators.

Certification for the Pennsylvania Superintendent’s Letter of Eligibility
Candidates must:

- hold a Master’s degree from an accredited program and principal’s license;
- have six years of professional service in schools, three of which shall have been in supervisory or administrative positions;
- have an official score report indicating a passing score on state licensure exam for Superintendent;
- all other State of Pennsylvania Department of Education requirements must be met;
- plus completion of the 15 semester hours listed below, many of which may already have been completed as part of the candidate's master's degree in educational administration and principalship certification programs.

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>EDAD 7024</td>
<td>Collective Bargaining and Systems Issues in Human Resources Administration</td>
<td>3</td>
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<tr>
<td>EDAD 7025</td>
<td>Educational Governance: Advanced Law and Policy Seminar</td>
<td>3</td>
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<tr>
<td>EDAD 7026</td>
<td>Technology and Facilities for Learning Organizations</td>
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<tr>
<td>EDAD 7035</td>
<td>The Superintendency and Evolving Ways of Looking at Leadership</td>
<td>3</td>
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<tr>
<td>EDAD 7050</td>
<td>Clinical Experience: Superintendent</td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<td><strong>15</strong></td>
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Learning Outcomes

1. **Mission, Vision, and Improvement:** Program completers will be able to “collaboratively lead, design and implement a school mission, vision and process for continuous improvement that reflects a core set of values and priorities” (NELP, 2018, pg. 13).
2. **Ethics and Professional Norms:** Program completers will be able to “promote the current and future success and well-being of each student and adult by applying ethical decisions and cultivate and enact professional norms” (NELP, 2018, pg. 15).
3. **Equity, Inclusiveness, and Cultural Responsiveness:** Program completers will be able to “develop and maintain a supportive, equitable, culturally responsive and inclusive school culture” (NELP, 2018, pg. 18).
4. **Learning and Instruction:** Program completers will be able to “evaluate, develop, and implement coherent systems of curriculum, instruction, supports and assessment” (NELP, 2018, pg. 21).
5. **Community and External Leadership:** Program completers will be able to “engage families, community, and school personnel in order to strengthen student learning, support school improvement and advocate for the needs of their school and community” (NELP, 2018, pg. 25).
6. **Operations and Management:** Program completers will be able to “improve management, communication, technology, school-level governance, and operation systems, to develop and improve data-informed and equitable school resource plans, and to apply laws, policies and regulations” (NELP, 2018, pg. 28).
7. **Building Professional Capacity:** Program completers will be able to “build the school’s professional capacity, engage staff in the development of a collaborative professional culture, and improve systems of staff supervision, evaluation, support and professional learning” (NELP, 2018, pg. 31).
8. **Internship:** Program completers will be able to synthesize and apply the above outcomes through substantial, sustained, standards-based work in real school building settings.

Reference
Graduate Courses

EDAD 6901 Instructional Leadership Beyond the Classroom 3 s.h.
Teacher leaders will lead both from within their own classrooms and beyond, therefore it will be important to equip candidates with the knowledge and skills that will assist them in any leadership situation they may face. Candidates will be introduced to the theory and practice of teacher leadership in order to assist in building teacher commitment, teacher efficacy, teaching competence, and instructional practices. There will be an additional emphasis on developing teacher leaders, specifically in the areas of adult learning principles, reflective practice, and professional learning communities. Candidates will be introduced to the importance of self-directed teacher professional development, taking on leadership roles at school, district, state, and national levels, as well as learning how to lead in both formal and informal ways.

EDAD 6903 Building Capacity of Adult Learners 3 s.h.
Learning is an extended, intricate, and lifelong process. Adult learners have a unique way of learning, one that varies from learning done in primary grades. As such, teacher leaders will need to have strong command of adult learning principles to effectively collaborate with others and assist adults in their own professional development. A study of current theories and research in the areas of social cognition, human development, interpersonal relationships, group processes, and motivation will assist candidates in meeting the needs of the adults they will work with. This course will be particularly helpful to those who mentor, lead professional development sessions, serve on building or district leadership teams, and participate in professional learning communities.

EDAD 6905 Culturally Responsive Teaching and Learning 3 s.h.
Educational leaders must practice professional, ethical values of equity, integrity, honesty, fairness, and dignity. The purpose of this course is to build candidate knowledge and skills in the area of culturally responsive leadership. Candidates will develop the ability to promote collaboration with faculty, administration, families, and community members and partners. This course will help candidates lead in culturally competent ways in order to make necessary changes in curriculum, culture, and school policies and practices. Additionally, candidates will learn how to assist others in providing individual learning opportunities for students where diverse perspectives are welcomed in addressing challenges.

EDAD 6906 Data-Coaching and Decision Making 3 s.h.
The purpose of this course is to provide candidates with the knowledge and skills to understand and utilize data to identify school improvement needs and make informed decisions in making change. Specifically, the course will provide opportunity for candidates to learn the nature of multiple data sources to identify patterns, trends, and improvement needs, conduct descriptive analysis, monitor and correct progress, and assist in developing high quality assessments. Candidates will experience authentic data-driven decision making by accessing state, district, school, and a variety of other relevant data resources to conduct descriptive and inferential analysis of trends and needs.

EDAD 6915 Learning, Teaching, and Instructional Leadership 3 s.h.
Leadership behaviors and expectations intended to build teacher commitment, increase teaching competence, and improve the learning climate of students. The importance of and role that adult development and learning play in teacher leadership regarding curriculum and instruction decisions are stressed.

EDAD 6931 Leadership in Educational Organizations: Theory to Best Practices 3 s.h.
Significant theories, research, and professional practices in the leadership of schools and school systems. Detailed analysis of primary sources and application of sources to reflection on issues and problems of administrative practice.

EDAD 6933 Educational Leadership and Organizational Change 3 s.h.
This course reviews, examines, and critiques significant theories, research, and professional practice related to school leadership. This course reviews the main research, theories, and practices that have been proven to facilitate effective organizational leadership. Change theory and processes will be studied to acquire knowledge and skills that will aid the development, implementation, and evaluation of a continuous, responsive, sustainable, data-based school improvement process. This course examines the concept of educational change, the role of school leaders as agents of change, and alternative change models and strategies, including the importance in attaining outcomes intended when introducing new initiatives.

EDAD 6936 Culturally Responsive Leadership 3 s.h.
This course examines culturally responsive pedagogy (CRP), which is a philosophy to facilitate student engagement and academic success by incorporating student cultures, experiences, and identities into the curriculum so that students and teachers can become co-creators of classroom knowledge.

EDAD 6947 School Building Operations and Management 3 s.h.
Theories of leadership and schooling that provide future principals with guides for action and behavior will be presented. Theories that shape personal decision-making processes that build schools as learning communities will be presented.

EDAD 6948 Data Driven School Improvement and Program Evaluation 3 s.h.
This course examines the integral impact data-informed decision management has on educational accountability and the efficacy of program initiatives that facilitate standards for improvement in the classroom, building, and district level. Comprehensive data retrieval, analysis, and interpretation are invaluable to promote equitable and culturally responsive leaders who foster not only school improvement, but also a climate where accountability for students reaches further than academic performance.

EDAD 6949 Legal and Ethical Issues in Public Administration 3 s.h.
Reviews the legal foundation of schools and educational policy through the review of cases, statutes, and constitutional provisions affecting the operation of elementary and secondary schools in the United States and explores the relationship between legal, ethical, and political issues in public administration. Acquaints educators with professional norms and ethical as well as legal standards, and means of identifying, evaluating, and making legal and ethical decisions, and modeling such behavior communicating and cultivating legal and ethical behavior in others.

EDAD 6952 School Finance and Budget Planning Processes 3 s.h.
This course focuses on an analysis of school funding on a state and local level. School budgeting, site-based management, and school business practices are major topics. An action research project is part of the course requirement.

EDAD 6954 Community Engagement and Collaborative Partnerships 3 s.h.
Within this course, candidates will explore, study, examine, and practice skills, which illustrate the role strategic marketing can play in building community support for schools and their programs. Within this context, candidates enrolled in this course will develop leadership perspectives that support school community collaboration and partnerships.

EDAD 6955 Professional Development and Human Resources 3 s.h.
In-depth examination of policies and practices designed to reconcile the interests of schools and the people who make them up. Topics include professional and staff development, equal employment, position description, recruitment, selection, performance appraisal, removal, compensation, and emerging issues.
EDAD 6975 Introduction to Administration Clinical Experience 3 s.h.
Designed to expand candidate's knowledge of the nature, characteristics and demands associated with school administration and provide opportunity to develop skills and dispositions needed for administrative responsibilities. Includes focused field experiences embedded in various courses throughout the program. Requires candidates to perform a particular administrative function in school and community settings.

Prereq.: Completion of five of the following courses EDAD 6915, EDAD 6931, EDAD 6933, EDAD 6947, EDAD 6949, EDAD 6954, and EDAD 6955.

EDAD 6982 Independent Study/Action Research 1-3 s.h.
Individual investigation of advanced topics under the guidance of selected departmental faculty. May be repeated.

EDAD 6990 Seminar in Educational Administration 1-3 s.h.
A seminar designed for the development of particular skills and/or perspectives on a topic related to educational administration.

EDAD 6993 Special Topics in Educational Administration 1-4 s.h.

Prereq.: Admission to master's degree program in educational administration.

EDAD 6995 Workshop in Educational Administration 1-3 s.h.
A workshop designed for the development of particular skills and/or perspectives on a topic related to educational administration.

EDAD 7014 Data Driven School Improvement and Program Evaluation 3 s.h.
This course examines the integral impact data-informed decision management has on educational accountability and the efficacy of program initiatives that facilitate standards for improvement in the classroom, building, and district level. Comprehensive data retrieval, analysis, and interpretation are invaluable to promote equitable and culturally responsive leaders who foster not only school improvement, but also a climate where accountability for students reaches further than academic performance.

EDAD 7018 School Discipline and Student Support Services: Policies, Programs and Prevention Strategies 3 s.h.
Examines school discipline and youth problems that threaten student health, welfare, and safety and research-proven school programs for addressing such problems. Emphasizes the role of school leaders in developing and implementing comprehensive policies and student support programs.

EDAD 7019 Special Education Law and Policy 2 s.h.
Provides an introduction to schools as political systems and the values that shape educational politics and policymaking. Examines the concept of educational change, the role of school leaders including the importance of implementation in attaining outcomes intended when introducing new initiatives. Uses special education law as vehicle for exploring change in educational environments.

EDAD 7020 Human Resource Leadership 3 s.h.
This course provides an in-depth examination of policies and practices designed to reconcile the interests of organizations (schools) and stakeholders (staff, faculty, and community). Topics include professional and staff development, equal employment, positions description, recruitment, selection, performance appraisal, removal, compensation, and emerging human resource issues.

EDAD 7022 Clinical Experience 2: The Principalship 1-4 s.h.
Completed in a school covered by teaching certificate or license. Second administrative clinical experience designed to highlight tasks. May be repeated for credit to fulfill program requirement.

EDAD 7022A Clinical Experience: The Principalship-Elementary (E) Middle (M) Secondary (S) 1-4 s.h.
Completed in a school covered by teaching certificate or license. Second administrative clinical experience designed to highlight tasks. May be repeated for credit to fulfill program requirements.

EDAD 7022B Clinical Experience: The Principalship-Elementary (E) Middle (M) Secondary (S) 1-4 s.h.
Completed in a school covered by teaching certificate or license. Second administrative clinical experience designed to highlight tasks. May be repeated for credit to fulfill program requirements.

EDAD 7024 Collective Bargaining and Systems Issues in Human Resources Administration 3 s.h.

EDAD 7025 Educational Governance: Advanced Law and Policy Seminar 3 s.h.
Explores emergent legal developments affecting P-12 education systems and the role and limits of the law in promoting educational reform. Reviews social science literature on governance issues and factors that affect the nature, degree, and rate of organizational compliance.

EDAD 7026 Technology and Facilities for Learning Organizations 3 s.h.
Due to increasing demands upon the educational facilities by the instructional use of technology and the need to prepare students for the world of work, facility management and integration of technology into the facility are examined.

EDAD 7035 The Superintendency and Evolving Ways of Looking at Leadership 3 s.h.
This course examines the role of superintendent in the administration of schools. Students will study leadership in complex social organizations so that they can apply current theory and research to their roles in complex, chaotic, educational environments.

EDAD 7040 Clinical Practice for the Administrative Specialist 3 s.h.
Candidates for administrative specialist licenses in areas of curriculum, instruction, and professional development or pupil services administration develop an individualized clinical plan and complete a set of tasks and an integrated project aligned with professional standards under the guidance of an appropriately licensed cooperating administrator.

Prereq.: Candidates must have completed all or be currently enrolled in remaining courses that compose the requirement of respective specialist license.

EDAD 7050 Clinical Experience: Superintendent 3 s.h.
Candidates for the superintendent license are required to complete four tasks from the master syllabus at the district-wide level, supervised by a school superintendent. Major components are the complete analysis of the financial structure of the candidate's school district and a system-level integrated project.

Prereq.: Completion of three of the following four courses: EDAD 7024, EDAD 7025, EDAD 7026, EDAD 7035, and two years experience in a building-level administrative capacity or equivalent.

EDAD 7050A Clinical Experience: Superintendent 1-3 s.h.
Candidates for the superintendent license are required to complete four tasks from the master syllabus at the district-wide level, supervised by a school superintendent. Major components are the complete analysis of the financial structure of the candidate's school district and a system-level integrated project.

Prereq.: Completion of three of the following four courses: EDAD 7024, EDAD 7025, EDAD 7026, EDAD 7035, and two years experience in a building-level administrative capacity or equivalent.
EDAD 7050B Clinical Experience: Superintendent 1-3 s.h.
Candidates for the superintendent license are required to complete four tasks from the master syllabus at the district-wide level, supervised by a school superintendent. Major components are the complete analysis of the financial structure of the candidate's school district and a system-level integrated project. Prereq. Completion of three of the following four courses: EDAD 7024, EDAD 7025, EDAD 7026, EDAD 7035, and two years experience in a building-level administrative capacity or equivalent.

EDAD 8111 Advanced Research Design and Statistics 3 s.h.
An in-depth treatment of the major correlational, experimental, and quasi-experimental research designs and associated statistical analyses, including the design and analysis of surveys and factor analytic techniques. Experience in data analysis using SPSS or other statistical packages. 3 s.h. Cross listed with FOUN 8111.

Prereq.: EDAD/FOUN 8104.

EDAD 8113 Theories of Inquiry 3 s.h.
Perspectives for critical analysis, investigation of ways of knowing, and an examination of criteria that have been used successfully for negotiating status and justifying claims within contested domains of inquiry. 3 s.h.

Prereq.: FOUN 8104 and EDAD 8111/FOUN 8111.

Cross listed with FOUN 8113.

EDAD 8122 Leadership in Education 3 s.h.
In this course students will critically analyze contemporary ways of thinking about leadership. As students examine their present paradigm of leadership, they will also analyze a reconfiguration of leadership that reflects developments in the new sciences and other fields.

Prereq.: Admission to the doctoral program.

EDAD 8125 Educational Politics and Policymaking in the United States 3 s.h.
Reviews professional literature on politics and policy making at the local, state, and federal level, including the values, institutional actors, processes, and interest groups that shape educational policy. Explores means of identifying problems, analyzing policy alternatives, and measuring policy outcomes.

Prereq.: Admission to the doctoral program.

EDAD 8130 Learning Processes and the Instructional Leader 3 s.h.
A study of current theories and research in the areas of cognition and learning, development and motivation that underlay approaches to teaching in any context.

EDAD 8135 Building Organizational Culture and Community Partnerships 3 s.h.
The Course EDAD 8135: Building Organizational Culture and Community Partnerships is designed in accordance with the National Educational Leadership Preparation (NELP) District Level Program Standards, Standard 5. Candidates in this educational leadership preparation course will learn to apply new knowledge and skills to engage families, communities, and related business partnerships to meet student and community cultural and environmental needs. An examination of the school and community culture will contribute to the essential objectives of the course. Crosslisted with: no Prereq. or Coreq.: none.

Prereq.: none.

Coreq.: none 3 s.

EDAD 8140 Seminar in Administrative Theory 3 s.h.
Extension of the administrator’s abilities to analyze professional problems, develop leadership strategies, and exercise sound decision making. Nontraditional (nonfunctionalist) theories are stressed, with emphasis on deconstructing and purposefully framing educational issues. Case studies strengthen the application of the theories.

Prereq.: Admission to the doctoral program.

EDAD 8142 Educational Problem Solving and Ethical Decision Making 3 s.h.
This course will teach students how to make competent leadership decisions by applying and enforcing ethical standards with followers. Ethics is at the heart of leadership. Leaders must make every effort to make ethical decisions and foster ethical behavior among followers. In this course students will explore the ethical demands of leadership. We draw from many fields of research to help students make ethical decisions, lead with integrity, and create an ethical culture. This course is designed to increase students' ethical competence and leadership abilities.

EDAD 8155 Seminar in Current Educational Issues 3 s.h.
Informing educational leaders about contextual issues of schools is necessary in order to understand and recognize that school reform, both at the time of its proposal and during the developmental stages of its implementation, is intended to ameliorate educational problems.

Prereq.: Admission to the doctoral program.

EDAD 8180 Special Topics in Educational Leadership 1-3 s.h.
Selected topics for a focused study on problems, issues, or concerns that relate to educational leadership.

Prereq.: Admission to the doctoral program.

EDAD 8185 Seminar in Educational Research/Dissertation Proposal 3 s.h.
The purpose of this course is to gain knowledge and skills in developing a research question and an appropriate methodology so that chapters I and II of a doctoral dissertation can be completed.

Prereq.: FOUN 8104, FOUN 8112, and FOUN 8111.

EDAD 8190 Dissertation Study 1-9 s.h.
Covers the design, proposal, conduct, reporting, and defense of scholarly research that addresses a meaningful topic derived from and contributing significantly to the literature of the field.

Prereq.: Completion of doctoral comprehensive examination.

EDAD 8191 Seminar in Educational Research--Dissertation: Review of Literature 2 s.h.
Students will build knowledge and skills in conducting a literature review to complete Chapter 2 of their dissertation. Writing will be broken down into manageable milestones, following the guidelines set forth by the YSU Educational Leadership Dissertation Guidelines and template. 2 s.h.

Prereq.: Admission to EDD program in Educational Leadership.

EDAD 8196 Seminar in Educational Research: Dissertation Defense 2 s.h.
This course is the for Doctoral Candidates who are near the end of the dissertation process. Doctoral Candidates will prepare their dissertation defense and successfully defend their dissertation proposal to their committee. Finally, they will prepare the final version of their dissertation and submit to the Graduate school. D. program in Educational Leadership.

Prereq.: Admission to Ed.

EDAD 8931 Leadership in Educational Organizations 3 s.h.
Significant theories, research, and professional practices in the leadership of schools and school systems. Detailed analysis of primary sources and application of sources to reflection on issues and problems of administrative practice. D. program in Educational Leadership. Ed.D. students who have not taken EDAD 6931 are required to complete EDAD 8931 and include a supplemental, substantive course assignment that relates to their intended area of specialization.

Prereq.: Admission to the Ed.

EDAD 8949 Legal and Ethical Issues in Public Administration 3 s.h.
Defines law and professional ethics and discusses the role of each in public decision making. Explores the status and application of the law in various areas of school operations through the reading of cases, statutes, and constitutional provisions. D. program in Educational Leadership. Ed.D. students who have not taken EDAD 6949 are required to complete EDAD 8949 and include a supplemental, substantive course assignment involving original research using primary source materials in education law and policy.

Prereq.: Admission to the Ed.
Master of Science in Education – Special Education

Introduction

The master’s degree program in special education provides advanced cognitive and educational skills for those who are presently working or expect to work as clinical/developmental personnel serving individuals with exceptionalities or as supervisors of special education programs. This degree program prepares candidates for work as an intervention specialist. Candidates will be introduced to advanced and in-depth teaching strategies which will provide understanding and provide the ability to implement tools as an intervention specialist working with learners with significant disabilities and exceptionalities.

Welcome

Our program is designed to prepare graduates with the knowledge, skills, and dispositions to best serve in schools and agencies in the area. Our accredited 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. We have a long history of producing 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 and graduate 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.

For more information contact the Department Office at 330-941-3251 or visit the Department of Teacher Education and Leadership Studies (http://catalog.ysu.edu/undergraduate/colleges-programs/college-education/department-teacher-education/).

Program Coordinator

For specific questions about the Master of Science in Education - Special Education program, please contact the program coordinator:

Courtney Cruz, M.Ed.
Beeghly College of Liberal Arts, Social Sciences and Education
Department of Teacher Education and Leadership Studies
(330) 941-3223
clcruz@ysu.edu

Mission

The Special Education Program supports the mission of both Youngstown State University and the Beeghly College of Liberal Arts, Social Sciences and Education through our work to:

- Prepare outstanding potential special education teachers by providing a rigorous educational program that is contemporary in its approaches, up to the minute in its content base knowledge, based upon didactic learning and practical experience and requiring demonstrated competency prior to graduation;
- Foster and require community and school based practicum experiences that involve the candidate developing cultural awareness and the acceptance of the diversity;
- Encourage candidates to expand their learning experiences though volunteerism by identifying campus and community opportunities for such practices;
- Connect candidates with community leaders and current practitioners in the field via guest lecturers and campus and community based presentations as a means of enhancing candidates’ learning and advancing their awareness of the cultural and economic life of the community;
- Extend the University’s efforts in advancing the intellectual and economic life of the state and region by providing advanced education and degrees to enable practitioners in the field to expand their knowledge base, meet the ever changing federal and state requirements to maintain licensure or certification in their field, and improve the economic status of those practitioners through acquisition of advanced degrees.

Accreditation

The Master of Science - Special Education graduate degree program is accredited by the National Council Association of Teacher Education (NCATE). To contact our current accreditation body, please go to: www.caepnet.org.

Both the Intervention Specialist Mild/Moderate Disabilities and the Autism & Related Disabilities Special Education Graduate Programs have received full recognition from the Council for Exceptional Children (CEC) https://www.cec.sped.org.

Graduate Faculty

Margaret L. Briley, Ph.D., Assistant Professor
Deafblind; low incidence disabilities; autism with a focus on communication and social interaction

Marcia Matanin, Ph.D., Professor
Assessment of student learning; program assessment; clinical partnerships

Graduate Courses

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 improved outcomes for learners with exceptionalities and their families as well as design and implement professional learning activities to increase their own practices.
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
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 Disorder  3 s.h.
Behavior analysis, behavior management, instruction, 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 Learners in Grades K-6 4 s.h.
This course is designed to provide candidate with the opportunity to research, study, apply and analyze 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.
Practicum experience, with mild/moderate exceptional learners in an inclusion classroom within grades 7-12, 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 through effective feedback, and collaboratively work with teacher(s), parents/guardians, and related service professional(s) to implement instruction and identify transition services to meet learners' diverse needs. Field hours required.

SPED 6933 Field-based Practicum with Moderate/Intensive Exceptional Learners in Grades K-6 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 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 7-12, 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 6965 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.

Intervention Specialist Mild/Moderate Disabilities
Introduction
The master’s degree program in special education, Intervention Specialist Mild Moderate provides advanced knowledge and skills for those who presently work or expect to work as clinical/developmental personnel serving individuals with exceptionalities, as supervisors of special education programs, or as intervention specialist classroom teachers. This degree program may lead to licensure in Ohio or other states. (Students are responsible for checking the requirements in their state if pursuing licensure.) Ohio teachers who hold a
teaching license may qualify to earn this license with the passage of state required exams, and possibly additional coursework.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/education/msed/sped-mild-moderate-disabilities/).

Welcome
Our program is designed to prepare graduates with the knowledge, skills, and dispositions to best serve in schools and agencies in the area. Our accredited 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. We have a long history of producing 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 and graduate 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.

For more information contact the Department Office at 330-941-3251 or visit the Department of Teacher Education and Leadership Studies (http://catalog.ysu.edu/undergraduate/colleges-programs/college-education/department-teacher-education/).

Program Director
For specific questions about the Master of Science in Education - Special Education program, please contact the program director.

Courtney Cruz, M.Ed.
Beeghly College of Liberal Arts, Social Sciences and Education
Department of Teacher Education and Leadership Studies
(330) 941-3223
clcruz@ysu.edu

Mission
The Special Education Program supports the mission of both Youngstown State University and the Beeghly College of Liberal Arts, Social Sciences and Education through our work to:

• Prepare outstanding potential special education teachers by providing a rigorous educational program that is contemporary in its approaches, up to the minute in its content base knowledge, based upon didactic learning and practical experience and requiring demonstrated competency prior to graduation;
• Foster and require community and school based practicum experiences that involve the candidate developing cultural awareness and the acceptance of the diversity;
• Encourage candidates to expand their learning experiences though volunteerism by identifying campus and community opportunities for such practices;
• Connect candidates with community leaders and current practitioners in the field via guest lecturers and campus and community based presentations as a means of enhancing candidates’ learning and advancing their awareness of the cultural and economic life of the community;
• Extend the University’s efforts in advancing the intellectual and economic life of the state and region by providing advanced education and degrees to enable practitioners in the field to expand their knowledge base, meet the ever changing federal and state requirements to maintain licensure or certification in their field, and improve the economic status of those practitioners through acquisition of advanced degrees.

Accreditation
The Master of Science - Special Education graduate degree program is accredited by the National Council Association of Teacher Education (NCATE). To contact our current accreditation body, please go to: www.caepnet.org.

Intervention Specialist Mild/Moderate Disabilities
Candidates for the Intervention Specialist Mild to Moderate Licensure option must meet all requirements for admission to the Graduate College as outlined in the YSU Graduate Catalog.

Candidates with bachelor degrees outside the college of education will be required to complete additional coursework for licensure. Candidates seeking initial licensure are required to successfully complete the Ohio Reading Requirement, PSYC 3709 and student teaching with edTPA for licensure.

For all candidates seeking a new area of licensure, 12 S.H. in reading, which includes a course in phonics, and passage of the appropriate licensure examination, are required by the Ohio Department of Education. Individuals holding teacher certification must fulfill the Ohio Reading requirement (12 S.H.). Completion of the OAE APK exam, Special Education content and the Foundations of Reading test are required by the Ohio Department of Education.

Candidates are given six (6) years in which to complete a master’s degree from the day of acceptance into the Graduate Program. All candidates are required to purchase a Taskstream account to complete the critical tasks for each course, which is essential for the Council for the Accreditation of Educator Preparation (CAEP). Successful completion of the comprehensive examination is required. Candidates will be required to pass the appropriate licensure exam.

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Total Semester Hours 30

Learning Outcomes
Candidates develop a deep understanding of the critical concepts and principles of their field of preparation and, by completion, are able to use
professional specialty practices flexibly to advance the learning of all P-12 students toward attainment of college- and career-readiness.

Candidates demonstrate their proficiencies to understand and apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 are enhanced, through:

- Candidates use research and understanding of qualitative, quantitative and/or mixed methods research methodologies to analyze data to impact student learning in the classroom.
- Candidates participate in collaborative activities with others such as peers, colleagues, teachers, administrators, community organizations, and parents;
- Candidates use/support appropriate applications of technology for their field of specialization.
- Candidates apply professional ethics, standards, dispositions, laws, and policies.
- Candidates learn and apply specialized content and discipline knowledge contained in approved state and/or national discipline-specific standards.

**Admission Requirements**

In addition to the minimum College of Graduate Studies admission requirements, all master’s in special education applicants must have the following:

- Cumulative grade-point average in undergraduate work of at least a 3.0 on a 4.0 scale.
- Students with a GPA of 2.5-2.99 must present a satisfactory score on the general test of the Graduate Record Exam (GRE), with scores of 150 verb., 148 quant., 4.0 writing.
- 3 references that include: name, email and phone number
- Official transcripts of all undergraduate or graduate work completed;

Candidates without a teaching certificate or license may be admitted on an individual basis to special education graduate programs. However, additional coursework may be required for licensure. Candidates with bachelor’s degrees outside the College of Education will be required to complete additional coursework for licensure. For all candidates seeking a new area of licensure, the Ohio Reading Requirement including 12 s.h. in reading is required (TERG OAE exams are required by the Ohio Department of Education (ODE)).

Individuals without a teaching certificate will also need to complete the Ohio Reading Requirement (TERG 3701, TERG 3702, TERG 3703, TERG 2610), OAE APK exam (Special Education content) and Foundations of Reading tests, PSYC 3709, SPED 4849 Supervised Student Teaching, and SPED 4869 Student Teaching Seminar, and passage of the appropriate licensure exam as required by ODE.

### Autism and Related Disabilities

**Introduction**

The master’s degree program in special education, Special Education Autism & Related Disabilities (moderate/intensive disabilities) program provides advanced knowledge and skills for those who presently work or expect to work as clinical/developmental personnel serving individuals with exceptionalities, as supervisors of special education programs, or as intervention specialist classroom teachers. This degree program may lead to licensure in Ohio or other states. *(Students are responsible for checking the requirements in their state if pursuing licensure.)* Ohio teachers who hold a teaching license may qualify to earn this license with the passage of state required exams, and possibly additional coursework.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/education/msed/sped-autism/).

**Welcome**

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Undergraduate and graduate 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.

For more information contact the Department Office at 330-941-3251 or visit the Department of Teacher Education and Leadership Studies (http://catalog.ysu.edu/undergraduate/colleges-programs/college-education/department-teacher-education/).

**Program Director**

For specific questions about the Master of Science in Education - Special Education program, please contact the program director:

**Courtney Cruz, M.Ed.**

Beeghly College of Liberal Arts, Social Sciences and Education

Department of Teacher Education and Leadership Studies

(330) 941-3223
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• Extend the University's efforts in advancing the intellectual and economic life of the state and region by providing advanced education and degrees to enable practitioners in the field to expand their knowledge base, meet the ever-changing federal and state requirements to maintain licensure or certification in their field, and improve the economic status of those practitioners through acquisition of advanced degrees.

Accreditation

The Master of Science - Special Education graduate degree program is accredited by the National Council Association of Teacher Education (NCATE). To contact our current accreditation body, please go to: www.caepnet.org.

Autism and Related Disabilities

The Moderate/Intense Autism and Related Disabilities Option prepares candidates to teach students with autism and related disabilities as well as to develop advanced systematic instruction in life skills areas including leadership and supportive skills appropriate to the area of specialization.

Candidates with bachelor degrees outside the college of education will be required to complete additional coursework for licensure. Candidates seeking initial licensure are required to successfully complete the Ohio Reading Requirement, PSYC 3709, student teaching and the edTPA for licensure.

For all candidates seeking a new area of licensure, 12 S.H. in reading, which includes a course in phonics, and passage of the appropriate licensure examination are required by the Ohio Department of Education. Individuals holding teacher certification must fulfill the Ohio Reading requirement (12 S.H.).

Candidates are given six (6) years in which to complete a master's degree from the day of acceptance into the Graduate Program. All candidates are required to purchase a Taskstream account to complete the critical tasks for each course, which is essential for the Council for the Accreditation of Educator Preparation (CAEP). Successful completion of the comprehensive examination is required. Candidates will be required to pass the appropriate licensure exams.

A candidate for the program must meet all requirements for admission to the Graduate College as outlined in the YSU Graduate Catalog. Candidates are responsible for adhering to all special education policies.

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• Candidates demonstrate their proficiencies to understand and apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 are enhanced, through:
  • Candidates use research and understanding of qualitative, quantitative and/or mixed methods research methodologies to analyze data to impact student learning in the classroom.
  • Candidates participate in collaborative activities with others such as peers, colleagues, teachers, administrators, community organizations, and parents;
  • Candidates use/support appropriate applications of technology for their field of specialization.
  • Candidates apply professional ethics, standards, dispositions, laws, and policies.
  • Candidates learn and apply specialized content and discipline knowledge contained in approved state and/or national discipline-specific standards.

Admission Requirements

In addition to the minimum College of Graduate Studies admission requirements, all master's in special education applicants must have the following:

• Cumulative grade-point average in undergraduate work of at least a 3.0 on a 4.0 scale.
• Students with a GPA of 2.5-2.99 must present a satisfactory score on the general test of the Graduate Record Exam (GRE), with scores of 150 verb., 148 quant., 4.0 writing.
• 3 references that include: name, email and phone number
• Official transcripts of all undergraduate or graduate work completed;

Candidates without a teaching certificate or license may be admitted on an individual basis to special education graduate programs. However, additional coursework may be required for licensure. Candidates with bachelor's degrees outside the College of Education will be required to complete additional coursework for licensure. For all candidates seeking a new area of licensure, the Ohio Reading Requirement including 12 s.h. in reading is required (TERG 3701, TERG 3702, TERG 3703, TERG 2610), and passage of the appropriate OAE exams are required by the Ohio Department of Education (ODE).

Individuals without a teaching certificate will also need to complete the Ohio Reading Requirement (TERG 3701, TERG 3702, TERG 3703, TERG 2610), OAE APK exam (Special Education content) and Foundations of Reading tests, PSYC 3709, SPED 4849 Supervised Student Teaching, and SPED 4869 Student Teaching Seminar, and passage of the appropriate licensure exam as required by ODE.

Master of Science in Education—Teacher Education

Dr. Lauren Cummins, Graduate Program Coordinator
2309 Beeghly College of Education
(330) 941-7237
lcummins@ysu.edu

Introduction

The master's degree programs in the Department of Teacher Education provide advanced professional preparation for teachers. The Department of Teacher Education offers the Curriculum and Instruction master's program with the following specialization areas leading toward the Master of Science in Education degree.

Curriculum and Instruction specialization areas:
The Master's programs in the Department of Teacher Education focus on the development of professional practitioners committed to quality teaching. These professionals are committed to reflecting on, and applying knowledge, skills, and dispositions so that all students can learn. Central to the development of such professionals is the refinement of competencies in the areas of scholarship, teaching, leadership, communication, and interpersonal relations. Professional practitioners are committed to the belief that all children can learn.

For more information about any of the degrees offered through the Department of Teacher Education, please contact the Teacher Education Office at (330)-941-3251.

Mission
The Department of Teacher Education's mission is to empower teachers for professional practice. The mission commits the faculty to a theme of critical reflective practice where candidates are engaged in activities that build on their knowledge, skills, and dispositions related to effective teaching. Faculty members are committed to educating practicing professionals in the areas of: scholarship, teaching, leadership, management, communication, and interpersonal relations.

Accreditation
The Beeghly College of Education Graduate Degree Programs were accredited by the National Council for Accreditation of Teacher Education (NCATE). http://www.ncate.org/.

Graduate Faculty
M. Kathleen L. Cripe, Ph.D., Associate Professor, Chair
Mathematics, teaching science, and strengthen the assessment methods for the science classroom instruction.
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.
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.

TCED 5991 Seminar in Teacher Education 1-5 s.h.
Various topics of current value in teacher education as selected by faculty. Grading is S/U.
Prereq.: Admission to College of Graduate Studies.

TCED 6001 Teacher Leadership Internship 1-3 s.h.
A practicum with emphasis on teacher supervision, coaching, mentoring, teacher leadership, and planned professional development. May be repeated. 1-3 s.h.
Prereq.: baccalaureate degree, three years of teaching.

TCED 6905 Introduction to Digital Teaching and Learning 3 s.h.
Digital teaching and learning is much more than knowing some great apps for the smart board or iPad. It is understanding a new paradigm that promotes a new pedagogy. It takes educators beyond the formal traditional classroom of lecture and paper/pencil into an interactive, student-centered environment. This course will introduce students to the paradigm of digital teaching and learning and provide the framework and foundation for change within districts and classrooms to meet 21st century learning.

TCED 6906 Designing Curriculum for the 21st Century Learner 3 s.h.
What does curriculum in the 21st century look like? How does the thinking paradigm differ from the traditional curriculum model? This course will build on the Introduction to Digital Teaching and Learning by introducing students to models of digital teaching that transform curriculum into the 21st century digital learning. Students will explore the process of unlearning traditional teaching methods and explore the shift to personalized, entrepreneur learning.
Prereq.: TCED 6905.

TCED 6907 Literacy for Digital Teaching and Learning 3 s.h.
Technology takes us out of a traditional form of literacy. Today, students are bombarded with tons of information and resources that effectively builds knowledge and skill for endless topics through the Internet. This course will explore the topic of digital literacy and support a knowledge-base that helps students in k-12 classrooms develop an ability to use digital technology to find information and critically evaluate that information's authority and relevance.

TCED 6908 Digital Learning Environments 3 s.h.
This course will provide students with learning experiences that explore what a classroom for digital learning looks and feels like. Students will be able to understand and be able to develop a variety of digital learning environments including; flipped class-times, blended learning environments, and online, distance education.

TCED 6909 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. (The ECE program highly recommends this course before taking any of the distance learning courses in the program). Grading is S/U.

TCED 6910 Leadership for the 21st-Century 3 s.h.
This course will provide students with the knowledge and skills to provide leadership, developing the skills needed to become agents of change. The content will lead to learning and create classrooms, schools, and community organization where innovation, creativity, and technology is used to support learning environments that are engaging, supportive, and transformational.

TCED 6911 Coding for Educators 3 s.h.
Participants in this course will learn computational thinking, introductory computer programming, and technology integration for content courses. The course will design three apps from start to finish, and leave the course with an instructional segment they can then implement into their curriculum.

TCED 6912 Gaming for Educators 3 s.h.
Participants in this course will develop instructional practices that rely on video games, and gaming techniques. Video games will be evaluated for inquiry skills, narrative potential, and content delivery. Video games are uniquely positioned to support student learning, as they serve multiple purposes and can be very engaging.

TCED 6922 Principles of Instruction 3 s.h.
Differentiated instruction is a teaching philosophy that provides consideration for all students. Rather than promoting the traditional one size fits all teaching model. Students will explore the research, determine effective instructional practices, and develop teaching materials and activities with regard to content, process and assessment. This instructional framework is designed to meet the needs of diverse student abilities, ensuring that all students can learn.

TCED 6932 Action Research in Urban and Rural Education 3 s.h.
This course focuses on action research as it applies to urban and rural education. Topics include reflecting to identify a problem, reviewing literature, planning and implementing interventions, data collection and analysis strategies, and sharing outcomes with others. Course may be offered onsite, online, or as a combination of both. Field experience in an appropriate educational setting is required.
Prereq.: Admission to School of Graduate Studies and Research.

TCED 6933 Brain Based Teaching and Learning 3 s.h.
This course is a critical appraisal of learning and teaching. Each learner constructs his/her brain as learning occurs. Teachers reconsider their practices in light of the science of learning research provided by education, neuroscience and socio-psychology. Course may be offered onsite, online, or as a combination of both.
Prereq.: Admission to School of Graduate Studies and Research.

TCED 6934 Assessment and Accountability 3 s.h.
In-depth study of mandates, policies, procedures, metrics, and consequences of pupil, teacher, and institutional assessment/evaluation models including formative and summative aspects.

TCED 6936 Curriculum, Assessment, and Instruction to Improve Learning 3 s.h.
Focus on the instructional design process from a practical perspective. Emphasis on planning the curriculum to include content analysis, learning objectives, instructional strategies, and measurement of student achievement.

TCED 6940 Foundations of STEM Education Theory to Practice 3 s.h.
Introduction to STEM education. Study of the history, foundation, and underlying principles of STEM education. Additional topics include: an inclusive mission engaging diversity in STEM education, STEM careers, and STEM as a part of the P-12 curriculum.

TCED 6941 Engineering and Technology Inquiry 3 s.h.
Introduction to principles of engineering and technology. Inquiry-based instruction using projects to solve engineering related problems with focus on implementation in the P-12 classroom.
Prereq.: TCED 6940.
Content Area Concentration

Introduction

The Department of Teacher Education's mission is to empower teachers for professional practice. The mission commits the faculty to a theme of critical reflective practice where candidates are engaged in activities that build on their knowledge, skills, and dispositions related to effective teaching. Faculty members are committed to educating practicing professionals in the areas of: scholarship, teaching, leadership, management, communication, and interpersonal relations. The Department also offers a variety of professional development courses and workshops.

Accreditation

The master's programs in the Department of Teacher Education are accredited by the National Council for Accreditation of Teacher Education (NCATE). http://www.ncate.org/.

Content Area Concentration Program

The Content Area Concentration Program in Teacher Education provides in-depth advanced study in the content area in which a teacher is licensed. Core requirements provide breadth of knowledge related to best practices in teaching, along with a research base for these practices. The content area concentration provides in-depth content knowledge, and in some cases, leads to a content area certificate. The completion of this master's degree, along with the certificate, enables teachers to teach in the College Credit Plus Program.

Core Requirements

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>TCED 6936</td>
<td>Curriculum, Assessment, and Instruction to Improve Learning</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6933</td>
<td>Brain Based Teaching and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

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.
Learning Outcomes

- Candidates develop a deep understanding of the critical concepts and principles of their field of preparation and, by completion, are able to use professional specialty practices flexibly to advance the learning of all P-12 students toward attainment of college- and career-readiness standards.
- Candidates demonstrate their proficiencies to understand and apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 are enhanced, through:
  - Applications of data literacy;
  - Use of research and understanding of qualitative, quantitative and/or mixed methods research methodologies;
  - Employment of data analysis and evidence to develop supportive school environments;
  - Leading and/or participating in collaborative activities with others such as peers, colleagues, teachers, administrators, community organizations, and parents;
  - Supporting appropriate applications of technology for their field of specialization;
  - Application of professional dispositions, laws and policies, codes of ethics and professional standards appropriate to their field of specialization.
- Advanced program completers learn and apply specialized content and discipline knowledge contained in approved state and/or national discipline-specific standards.

Admission Requirements

In addition to the minimum College of Graduate Studies admission requirements, all master's in special education applicants must have the following:

- Applicants must have earned above a 2.7 grade-point average. (If an applicant’s GPA is slightly below the minimum required, an applicant may include a GRE or MAT score to have their application reviewed.);
- Three Letters of Reference or Reference forms, at least two of which should be prepared by current or former faculty;
- Official transcripts of all undergraduate or graduate work completed;
- Letter of intent – Candidates must provide a one page response to each of the following:
  - What are the personal attributes that have prepared you for this profession?
  - What is the purpose of obtaining this degree?
  - Application Deadline: July 15th. Students admitted once per year for fall semester.

To take classes as a non-degree candidate, the approval of the department chair must be obtained. Non-degree candidates choosing to earn a degree must make formal application for admission to the degree program. A GPA of 3.0 must be maintained in order to convert from non-degree to regular status.

Candidates without a teaching certificate or license may be admitted on an individual basis to special education graduate programs. However, additional coursework may be required for licensure. Candidates with bachelor's degrees outside the College of Education will be required to complete additional coursework for licensure. For all candidates seeking a new area of licensure, the Ohio Reading Requirement including 12 s.h. in reading is required (TERG 3701, TERG 3702, TERG 3703, TERG 3701), and passage of the appropriate PRAXIS exam is required by the Ohio Department of Education (ODE).

Individuals without a teaching certificate will also need to complete the Ohio Reading Requirement (TERG 3701, TERG 3702, TERG 3703, TERG 3701), OAE APK exam (Special Education content) and Foundations of Reading tests, PSYC 3709 or PSYC 6903 or equivalent, SPED 4849 Supervised Student Teaching, and SPED 4869 Student Teaching Seminar, and passage of the appropriate licensure exam as required by ODE.

Curriculum and Instruction

Dr. Lauren Cummins, Graduate Program Coordinator
2309 Beeghly College of Education
(330) 941-7237
lcummins@ysu.edu
**Introduction**

The Teacher Education Master’s program in Curriculum and Instruction is a totally online program, focusing on the development of professional practitioners committed to quality teaching and committed to the belief that all children can learn. Central to the development of such professionals is the refinement of competencies in the areas of teaching, learning, assessment, technology, and communication. Students admitted to this program will choose one of five possible specialization areas: literacy, digital teaching and learning, teacher leadership, STEM, mathematics or general studies. The Literacy specialization will support an increased depth of knowledge and skills in the area of language arts and reading. Digital Teaching and Learning will focus on the paradigm shift in teaching that utilizes technology as an effective tool in 21st-century classrooms, P-12. The specialized area of Teacher Leadership will support an increased depth of knowledge and skills in the area of informal and formal leadership in and out of the classroom and is aligned to the new Ohio Teacher Leadership Standards. STEM will focus on the implementation of STEM curriculum in the P-12 curriculum through inquiry based learning. Mathematics will support an increased depth of knowledge needed to teach mathematics competencies at the high school level. The general studies option is for students who want to obtain a C&I degree without an area of specialization. Courses for general studies may come from any department at YSU and may, or may not, be offered online.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/education/).

For more information about the Department of Teacher Education, please contact the Teacher Education Office at (330)-941-3251.

**Mission**

The Department of Teacher Education’s mission is to empower teachers for professional practice. The mission commits the faculty to a theme of critical reflective practice where candidates are engaged in activities that build on their knowledge, skills, and dispositions related to effective teaching. Faculty members are committed to educating practicing professionals in the areas of: scholarship, teaching, leadership, management, communication, and interpersonal relations. The Department also offers a variety of professional development courses and workshops.

**Accreditation**

The master’s programs in the Department of Teacher Education are accredited by the National Council for Accreditation of Teacher Education (NCATE). http://www.ncate.org/.

**Curriculum and Instruction Program**

The Curriculum & Instruction program is a comprehensive program completely related to curriculum and instruction in the classroom. Additionally, this programs gives students the opportunity to take other related courses of interest.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>TCED 6905</td>
<td>Introduction to Digital Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6936</td>
<td>Curriculum, Assessment, and Instruction to Improve Learning</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6933</td>
<td>Brain Based Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6932</td>
<td>Action Research in Urban and Rural Education</td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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**Areas of Specialization**

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>TCED 6906</td>
<td>Designing Curriculum for the 21st Century Learner</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6907</td>
<td>Literacy for Digital Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6908</td>
<td>Digital Learning Environments</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6910</td>
<td>Leadership for the 21st-Century</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6911</td>
<td>Coding for Educators</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6912</td>
<td>Gaming for Educators</td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>TERG 6922</td>
<td>Organizing and Managing Diverse Literacy Environments</td>
<td>3</td>
</tr>
<tr>
<td>TERG 6923</td>
<td>Literacy and Phonics Instruction</td>
<td>3</td>
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<tr>
<td>TERG 6924</td>
<td>Content Literacy</td>
<td>3</td>
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<tr>
<td>TERG 6926</td>
<td>Reading and Language Arts Assessment</td>
<td>3</td>
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<tr>
<td>TERG 6927</td>
<td>Practicum: Coaching for Effective Literacy Instruction</td>
<td>3</td>
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<tr>
<td>TERG 6928</td>
<td>Practicum: Case Study in Reading and Language Arts</td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<td><strong>18</strong></td>
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<tr>
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<tbody>
<tr>
<td>EDAD 6901</td>
<td>Instructional Leadership Beyond the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6903</td>
<td>Building Capacity of Adult Learners</td>
<td>3</td>
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<tr>
<td>EDAD 6905</td>
<td>Culturally Responsive Teaching and Learning</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6906</td>
<td>Data-Coaching and Decision Making</td>
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<tr>
<td>EDAD 6933</td>
<td>Educational Leadership and Organizational Change</td>
<td>3</td>
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<tr>
<td>EDAD 6954</td>
<td>Community Engagement and Collaborative Partnerships</td>
<td>3</td>
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<td><strong>Total Semester Hours</strong></td>
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<th>COURSE</th>
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<tbody>
<tr>
<td>TCED 6940</td>
<td>Foundations of STEM Education Theory to Practice</td>
<td>3</td>
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<tr>
<td>TCED 6941</td>
<td>Engineering and Technology Inquiry</td>
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<tr>
<td>TCED 6942</td>
<td>Environmental Inquiry</td>
<td>3</td>
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<tr>
<td>TCED 6943</td>
<td>STEM Integration in the P-12 Classroom</td>
<td>3</td>
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<tr>
<td>TCED 6944</td>
<td>A Global Perspective</td>
<td>3</td>
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<tr>
<td>TCED 6945</td>
<td>STEM Leadership</td>
<td>3</td>
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<tr>
<td><strong>Total Semester Hours</strong></td>
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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>MATH 5825</td>
<td>Advanced Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6995</td>
<td>Special Topics (Analysis for Teachers)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6995</td>
<td>Special Topics (Algebra for Teachers)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6995</td>
<td>Special Topics (Discrete Math for Teachers)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 6995</td>
<td>Special Topics (History of Mathematics)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 6940</td>
<td>Advanced Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
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<tr>
<td><strong>COURSE</strong></td>
<td><strong>TITLE</strong></td>
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</tr>
<tr>
<td><strong>General Studies</strong></td>
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<tr>
<td>Eighteen semester hours of courses to be selected by student in consultation with advisor.</td>
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</tbody>
</table>

Candidates must purchase a TaskStream account at the beginning of their studies, which is necessary for our accreditation through The Council for the Accreditation of Educator Preparation (CAEP).
All candidates must take and successfully pass the Comprehensive Examination which covers their coursework.

Learning Outcomes

General Learning Outcomes

Candidates develop a deep understanding of the critical concepts and principles of their field of preparation and, by completion, are able to use professional specialty practices flexibly to advance the learning of all P-12 students toward attainment of college- and career-readiness. Candidates apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 improved through:

- applying data literacy;
- using research and understanding of qualitative, quantitative and/or mixed methods research methodologies;
- employing data analysis and evidence to develop supportive school environments;
- reading and/or participating in collaborative activities with others such as peers, colleagues, teachers, administrators, community organizations, and parents;
- supporting appropriate applications of technology for their field of specialization;
- applying professional dispositions, laws, and policies, codes of ethics and professional standards appropriate to their field of specialization.

Advanced program completers learn and apply specialized content and discipline knowledge contained in approved state and/or national discipline-specific standards.

Specific Specialization Outcomes

Teacher Leadership;

In this program you will learn to:

- promote an inclusive, equitable, and collaborative culture among staff members.
- implement evidence-based strategies and research to improve practice and student learning.
- facilitate professional learning by utilizing adult learning principles.
- employ evidence-based leadership practices to drive school improvement initiatives.
- make effective data-based decisions which lead to school improvement.
- strengthen relationships and partnerships with school and community stakeholders.
- advocate for student learning and the teaching profession.

Digital Teaching and Learning:

In this program, you will learn to:

- explore and embrace the new paradigm shift in digital teaching and learning that supports students to be entrepreneurs of their own learning.
- meet the challenge of moving into a more personalized, student-centered approach to teaching.
- identify and implement research-based teaching methods that enhance digital learning in P-12 classrooms and support 21st-century teaching and learning.
- evaluate, select, and integrate effective learning technologies to enhance student learning and prepare students for a digital world.
- create digital learning environments that promote and sustain respectful digital citizens.

- develop and utilize leadership skills that empower educators to be effective change agents in their schools and districts.

Literacy

In this program, you will learn to:

- establish and maintain a child-centered classroom culture that provides diverse learning opportunities, materials, and practices for all students.
- develop a system of providing instructional support to peers using student data, observations, model teaching, conferencing, and staff development.
- assure that all aspects of literacy learning and usage are applied in every content area d. recognizing the developmental nature of spelling and phonics learning and use when selecting and critiquing resources and activities in order to sequence instruction.
- incorporate all aspects of literacy assessment, curriculum development, materials selection, lesson design, instruction and self-reflection as a means to improving the learning of all students.
- apply a multifaceted approach to assessment as a means of obtaining authentic information about the strengths and needs of diverse students for the purposes of instructional decision-making.

Math

In this program, you will learn to:

- describe connections between discrete mathematics, abstract algebra, real analysis and the high school classroom.
- develop the ability to read and understand advanced mathematical definitions, theorems, and proofs.
- develop the ability to communicate in mathematics and produce well-written proofs.
- connect algebraic concepts and theory to the high school classroom.
- analyze historical sources of mathematics and summarize their major results.
- employ various proof techniques to verify mathematical arguments.
- explain the fundamental discrete mathematical structures and their importance.
- implement proper statistical data analysis techniques to model and analyze complex problems, and demonstrate competence in analyzing data.
- communicate statistical ideas clearly in oral and written forms using appropriate statistical terminology and generate reports that show statistical expertise in writing and model implementation.

STEM

In this program you will learn to:

- clarify the definition of STEM in the context of K-12 science education.
- investigate the impact of state and national policies on the trends in STEM education.
- identify the historical changes in K-12 Science Education and evaluate the present status of K-12 Science Education in their state and school district.
- evaluate the characteristics of effective STEM programs and learning environments.
- develop the ability to apply knowledge of math, science and the principles of environmental engineering applications to formulate and solve environmental engineering programs for different grade levels.
- develop the knowledge necessary to understand the impact of environmental engineering solutions in a global/societal context as well as contemporary issues.
- design lessons that engage groups of students in STEM education through pedagogical strategies of social interactions, cooperative learning.
Association (ILA) and mandated by the Ohio Department of Education. The standards and criteria for judging candidates are established by the International Literacy Association (ILA) and mandated by the Ohio Department of Education.

Admission Requirements
In addition to the minimum College of Graduate Studies admission requirements, applicants must have the following:

- A bachelor's degree from a college or university certified by a regional accrediting agency approved by the U.S. Department of Education.
- Valid teaching license
- Cumulative GPA in undergraduate work of at least a 2.5 on a 4.0 scale.
- Students with a GPA of 2.5-2.99 must present a satisfactory score on the general test of the GRE with scores of 150 verb., 148 quant., and 4.0 writing.
- Students with a GPA of 3.0 or above are eligible for a GRE waiver.
- 3 references that include: name, email and phone number

Literacy
Admission to this program has been suspended.

Introduction
The master's degree teacher education programs provide advanced professional preparation for teachers. The Department of Teacher Education and Leadership Studies provides master's degrees in three specialty areas for post-baccalaureate study toward the M.S. in Education: Content Area Concentration, Curriculum and Instruction, and Literacy. The Master's programs focus on the development of professional practitioners committed to quality teaching. These professionals are committed to reflecting on and applying knowledge, skills, and dispositions so that all students can learn. Central to the development of such professionals is the refinement of competencies in the areas of scholarship, teaching, leadership, management, communication, and interpersonal relations. Professional practitioners are committed to the belief that all children can learn.

For more information about the Department of Teacher Education and Leadership Studies, please contact the office at (330) 941-3251.

Mission
The mission of the Department of Teacher Education and Leadership Studies is to empower teachers for professional practice. The mission commits the faculty to a theme of critical reflective practice where candidates are engaged in activities that build on their knowledge, skills, and dispositions related to effective teaching. Faculty members are committed to educating practicing professionals in the areas of: scholarship, teaching, leadership, management, communication, and interpersonal relations. The department also offers a variety of professional development courses and workshops.

Accreditation
The master's programs in the Department of Teacher Education and Leadership Studies are accredited by the National Council for Accreditation of Teacher Education (NCATE). http://www.ncate.org/.

Literacy Program
The Literacy Master and/or Reading (Pre K-12) Endorsement program specialty area prepares candidates to develop advanced cognitive and leadership skills appropriate for lead teacher, curriculum coordinator, and mentor in literacy. Literacy professionals with an endorsement and/or master's degree in literacy are responsible for meeting literacy needs of all students. The standards and criteria for judging candidates are established by the International Literacy Association (ILA) and mandated by the Ohio Department of Education.

Admission Requirements
In addition to the minimum College of Graduate Studies admission requirements, applicants must have the following:

- A bachelor's degree from a college or university certified by a regional accrediting agency approved by the U.S. Department of Education.
- Valid teaching license
- Cumulative GPA in undergraduate work of at least a 2.5 on a 4.0 scale.
- Students with a GPA of 2.5-2.99 must present a satisfactory score on the general test of the GRE with scores of 150 verb., 148 quant., and 4.0 writing.
- Students with a GPA of 3.0 or above are eligible for a GRE waiver.
- 3 references that include: name, email and phone number

Learning Outcomes
- Candidates develop a deep understanding of the critical concepts and principles of their field of preparation and, by completion, are able to use professional specialty practices flexibly to advance the learning of all P-12 students toward attainment of college- and career-readiness standards.
- Candidates demonstrate their proficiencies to understand and apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 students are enhanced, through:
  - Applications of data literacy;
  - Use of research and understanding of qualitative, quantitative and/or mixed methods research methodologies;
opportunities serve the practicing engineer, as well as the student, who wants
may select a thesis, non-thesis, or management curriculum plan. These
Several technical concentration areas are available in each option. Students
chance of succeeding in the program and obtaining a graduate degree.
Admission to any of the five engineering options, including chemical, civil and
graduate program leading to the Master of Science degree in engineering.
The Rayen School of Engineering and Engineering Technology, as part of
Master of Science in Engineering
Admission Requirements
In addition to the minimum College of Graduate Studies admission
requirements, all master's in special education applicants must have the following:

• Applicants must have earned above a 2.7 grade-point average. (If an
applicant’s GPA is slightly below the minimum required, an applicant may
include a GRE or MAT score to have their application reviewed.);
• Three Letters of Reference or Reference forms, at least two of which
should be prepared by current or former faculty;
• Official transcripts of all undergraduate or graduate work completed;
• Letter of intent – Candidates must provide a one page response to each of the
following:
  • What are the personal attributes that have prepared you for this
profession?
  • What is the purpose of obtaining this degree?
  • Application Deadline: July 15th. Students admitted once per year for fall
semester.

To take classes as a non-degree candidate, the approval of the department
chair must be obtained. Non-degree candidates choosing to earn a degree
must make formal application for admission to the degree program. A GPA of
3.0 must be maintained in order to convert from non-degree to regular status.
Candidates without a teaching certificate or license may be admitted on an
individual basis to special education graduate programs. However, additional
coursework may be required for licensure. Candidates with bachelor's degrees
outside the College of Education will be required to complete additional
coursework for licensure. For all candidates seeking a new area of licensure,
the Ohio Reading Requirement including 12 s.h. in reading is required (TERG
3701, TERG 3702, TERG 3703, TERG 3701), and passage of the appropriate
PRAXIS exam is required by the Ohio Department of Education (ODE).
Individuals without a teaching certificate will also need to complete the Ohio
Reading Requirement (TERG 3701, TERG 3702, TERG 3703, TERG 3701),
OAE APK exam (Special Education content) and Foundations of Reading
tests, PSYC 3709 or PSYC 6903 or equivalent, SPED 4849 Supervised Student
Teaching, and SPED 4869 Student Teaching Seminar, and passage of the
appropriate licensure exam as required by ODE.

Master of Science in Engineering
The Rayen School of Engineering and Engineering Technology, as part of
the College of Science, Technology, Engineering, and Mathematics, offers a
graduate program leading to the Master of Science degree in engineering.
Admission to any of the five engineering options, including chemical, civil and
environmental, electrical, industrial and systems, and mechanical engineering,
is granted to qualified applicants who have been judged to have a good
chance of succeeding in the program and obtaining a graduate degree.
Several technical concentration areas are available in each option. Students
may select a thesis, non-thesis, or management curriculum plan. These
opportunities serve the practicing engineer, as well as the student, who wants
to pursue advanced graduate study and research. Courses offered on campus
are usually held during the evenings. The educational opportunities include
traditional classroom and laboratory courses, seminars, and research projects
guided by experienced members of the graduate faculty.
Teaching or research assistantships are available to qualified applicants on a
competitive basis upon review and recommendation by the home department.
In addition, the College of Graduate Studies may offer scholarships or grants-
in-aid to qualified students. Students desiring assistantships or scholarships
must submit an application to the College of Graduate Studies by the specified
deadlines.
This description provides an overview of admission and degree requirements,
advising, and program plans. Information concerning course scheduling and
prospective course offerings can be obtained from the YSU website or the
individual engineering departments. Further assistance with any matter related
to engineering graduate programs may be obtained by telephone, email,
or personal visit to the program option coordinator in the student’s area of
interest.
Graduate Assistantships
Students interested in a graduate assistantship position must submit a
separate application along with three letters of recommendation to the College
of Graduate Studies. Further details are provided elsewhere in the Graduate
Catalog under Financial Assistance. The College of Graduate Studies will
forward the application to the department. Each engineering department has
established a process for evaluating applicants. Applicants should contact the
option coordinator in their field of interest for details. Final recommendations
are forwarded to the dean of the College of Graduate Studies. Applicants are
notified by mail of the dean's decision.
In cases where the applicant is not fully prepared for their intended graduate
program, completion of undergraduate deficiency courses may be required.
This is common when the applicant’s undergraduate degree is in a different
discipline than the intended graduate program. Such applicants may be
granted provisional admission as long as they require no more than 9
semester hours of undergraduate deficiency courses. In addition, some
programs may require stronger evidence of academic ability (e.g. higher GPA)
for applicants having undergraduate degrees outside the discipline.
Non-Degree Admission
Students meeting all requirements for admission to the College of Graduate
Studies, but who do not intend to pursue a Master of Science degree, may
apply for non-degree admission. In addition, an applicant whose academic
record does not meet the required standards for admission to a Master
of Science program may apply for non-degree admission to the College
of Graduate Studies. For students wishing to pursue a Master of Science
in Engineering degree, non-degree admission provides an opportunity to
demonstrate his/her academic capability. Non-degree students completing
nine semester hours of appropriate graduate courses with grades of B or
better may apply for admission to a specific engineering degree option with
regular or provisional status to continue his/her study for the Master of
Science in Engineering.
Advisement
The Rayen School of Engineering and Engineering Technology requires an
advisor for each individual graduate student. An advisor is recommended
by the option coordinator in the student’s discipline and assigned by the
College of Graduate Studies upon acceptance. It is the responsibility of the
student to initiate contact with his or her advisor, and this should be done
as soon as possible before registering for the first time and at the time of
course registration each semester. The student, with the help of his or her
advisor, shall develop a study plan that includes goals and desired outcomes,
and a coursework plan. The plan may be revised, if necessary, as the study
progresses, with the approval of the advisor and option coordinator.
Chemical Engineering

Pedro Cortes, Ph.D., Associate Professor
Structure-property relationships of polymers; composites and hybrid materials; smart materials and structures; development of chem-bio sensing platforms based on carbon nanotubes

Holly J. Martin, Ph.D., Associate Professor
Corrosion studies; modification of metal surfaces to strongly adhere polymeric coatings for corrosion resistance

Byung-Wook Park, Ph.D., Assistant Professor
Engineered biohybrid materials for biomedical applications; biohybrid microswimmers for drug delivery and bioimaging; wearable bioelectronics for chronic wound monitoring; smart wound dressing

Civil and Environmental Engineering

Richard Albert Deschenes, Jr., Ph.D., Assistant Professor
Materials science; concrete durability and materials; applied mechanics

AKM Anwarul Islam, Ph.D., Professor
Impact of blast on highway bridges; use of CFRP in enhancing structural strength of concrete members; structural health monitoring of bridges using wireless sensor network

Suresh Sharma, Ph.D., Associate Professor
Complex hydrologic and water quality modeling using various types of data driven, conceptual, physically based and distributed and semi-distributed watershed models in climate change/variability context

Electrical and Computer Engineering

Farzad Ahmad, Ph.D., Assistant Professor
Flexible wearable electronics; liquid additive manufacturing; low-loss magnetic materials; 3D printed sensors; embedded systems

Jalal Jalali, Ph.D., Professor
Electromagnetic; power systems; power electronics; FR engineering; energy efficiency

Frank Xiyi Li, Ph.D., Professor, Chair
Electron spin resonance imaging; EMC, RF, and software engineering; networks; applied magnetic fields

Industrial and Systems Engineering

S. Cory Brozina, Ph.D., Assistant Professor
Student support and success in engineering; learning analytics; first-year engineering

Kyosung Choo, Ph.D., Associate Professor
Heat and mass transfer; multiphase flow; phase change phenomena; data center cooling; energy audit of buildings; microchannel heat exchangers; linear friction welding; laser welding; kinetics of human body performance

Hazel Marie, Ph.D., Professor
FEA/CFD modeling applied to solid-fluid interaction of thin film lubrication sealing; mechanical material modeling of soft biological tissue

Stefan Moldovan, Ph.D., Assistant Professor
Multi-scale computational fluid dynamics; experimental techniques as applied to crystal growth within reactors, finger seals, hydrodynamic bearings and dampers; wet friction materials in torque converters

Jae Joong Ryu, Ph.D., Associate Professor
Effect of process induced anisotropic microstructure on sliding contact fatigue damage of titanium alloy joint implants; mechanical load assisted dissolution response of medical grade metals and alloys

Elvin B. Shields, Ph.D., Professor
Mechanical vibrations; fracture mechanics; kinematics; the scholarship of teaching and learning

Virgil C. Solomon, Ph.D., Professor
Synthesis of shape memory alloys, ceramic-metal composites and nanostructures and their characterization using metallography, thermal analysis and analytical scanning and transmission electron microscopy techniques

Chemical Engineering

Option Coordinator
Douglas M. Price
2068 Moser Hall
(330) 941-3019
dmprice@ysu.edu (scmartin@ysu.edu)

Option Description

Chemical engineers apply scientific and engineering knowledge to design and produce a wide variety of consumer and industrial products, including food, fuels, plastics, pharmaceuticals, etc. Chemical engineers find exciting global career opportunities in the chemical, biomedical, nuclear, pharmaceutical, and energy fields. Graduate study in chemical engineering provides students with the scientific and professional knowledge necessary for their field of interest and develops student abilities to formulate solutions to new and complex problems in the context of current environmental, social, and economic considerations. These objectives are accomplished by flexible plans of study designed to meet the needs of the program’s graduate students. The program includes thesis, non-thesis, and engineering management plans.

Facilities for advanced study and research are located in Moser Hall, which houses a variety of well-equipped laboratories. These include the heat transfer lab, distillation lab, and biochemical engineering lab. In addition, the college computer lab provides access to a large number of modern PCs with high-speed internet connections.

The Master of Science in Engineering may be characterized as being both career-oriented and flexible. Program plans and options are available to accommodate the needs of nearly every engineering graduate student. Graduate students enrolled in any of the engineering graduate programs must complete:

- 30 semester hours for the thesis plan,
- 33 semester hours for the nonthesis plan, or
- 36 semester hours for the management plan.

The degree requirements consist of core courses, technical courses, and project courses. The management plan also requires a series of business courses. These degree programs are designed to provide graduate students with the knowledge and skills to excel in professional careers and/or pursue a PhD or doctorate degree in engineering. To obtain a list of core and technical course requirements for a particular engineering discipline, students should contact the option coordinator for the program of interest.

Program Plans

Thesis Plan

Graduate students choosing the thesis plan are required to complete 30 semester hours of graduate coursework. This generally consists of:
• six to nine semester hours of core courses,
• 15-18 semester hours of technical concentration courses, and
• six semester hours of thesis.

This plan is strongly recommended for all candidates who wish to continue their graduate studies beyond the master's degree. The thesis provides firsthand experience with experimental design, literature searches, research methodology, technical report writing, and oral presentation of results. Additionally, the thesis option can lead the graduate student to a higher level of expertise in the chosen area of specialization.

Non-thesis Plan
The non-thesis plan is designed for students who wish to enhance their knowledge and skills to succeed in careers as practicing engineers, but are unlikely to pursue a PhD or doctorate degree. A total of 33 semester hours of coursework is required for this plan. In addition to 6-9 semester hours of core courses, every student enrolled in this option is required to complete 21-24 semester hours of technical courses related to their discipline, and a 3-semester-hour graduate project course. A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Management Plan
Students who have been in the work arena and are moving into an engineering management role may wish to choose the management plan. A total of 36 semester hours of coursework is required for this plan. This consists of:

• 6-9 semester hours of core courses,
• 9-12 semester hours of business courses,
• 12-18 semester hours of technical courses, and
• a 3-semester-hour graduate project.

A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Chemical Engineering Requirements
At the time of initial enrollment, the student will select a program plan (thesis, non-thesis, or management) and technical area of interest (e.g. chemical processes, biochemical, environmental, materials). The degree requirements for each program plan are listed in the general description of the Master of Science in Engineering program. A list of required courses and possible electives for each plan may be obtained from the graduate program’s option coordinator.

In cooperation with an assigned faculty advisor, each student will establish a set of academic goals and desired outcomes, and a coursework plan to meet those objectives. Upon completion of the graduate program, all students will complete either a written or an oral assessment of the effectiveness of the program in meeting their established goals and outcomes.

Thesis students who have registered for all required thesis hours and have completed all course requirements but have not finished the thesis are required to maintain current student status if they expect to utilize any University service (e.g., parking, computers, library, advisors’ assistance, thesis defense, etc.). This can normally be accomplished by registering for at least one hour of thesis credit.

Learning Outcomes
• an ability to formulate and solve advanced engineering problems;
• an ability to apply advanced knowledge of chemistry, biology and/or material science in chemical engineering;
• an ability to design and conduct research projects;
• technical writing and oral communication skills.

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.

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.: Junior or Senior Standing or Approval of the 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.
Graduate study in civil and environmental engineering provides students with advanced scientific and engineering knowledge in their field of interest and develops their abilities to formulate solutions to new and complex problems in the context of current environmental, social, and economic considerations. The civil and environmental engineering program offers opportunities for advanced study in two main areas:

- structural/geotechnical engineering and
- environmental/water resources engineering.

Facilities for advanced study and research are located in Moser Hall, which houses a variety of well-equipped laboratories. These include the SMART Lab, strength of materials lab, hydraulics/fluid mechanics lab, environmental engineering lab, geotechnical engineering lab, and concrete mixtures lab. In addition, the college computer lab provides access to a large number of modern PCs equipped with high-speed internet connections and latest software for modeling in various fields of research.

The Master of Science in Engineering may be characterized as being both career-oriented and flexible. Program plans and options are available to accommodate the needs of nearly every engineering graduate student. Graduate students enrolled in any of the engineering graduate programs must complete:

- 30 semester hours for the thesis plan,
- 33 semester hours for the nonthesis plan, or
- 36 semester hours for the management plan.

The degree requirements consist of core courses, technical courses, and project courses. The management plan also requires a series of business courses. These degree programs are designed to provide graduate students with the knowledge and skills to excel in professional careers and/or pursue a PhD or doctorate degree in engineering. To obtain a list of core and technical course requirements for a particular engineering discipline, students should contact the option coordinator for the program of interest.

Program Plans

Thesis Plan

Graduate students choosing the thesis plan are required to complete 30 semester hours of graduate coursework. This generally consists of:

- six to nine semester hours of core courses,
- 15-18 semester hours of technical concentration courses, and
- six semester hours of thesis.

This plan is strongly recommended for all candidates who wish to continue their graduate studies beyond the master’s degree. The thesis provides firsthand experience with experimental design, literature searches, research methodology, technical report writing, and oral presentation of results. Additionally, the thesis option can lead the graduate student to a higher level of expertise in the chosen area of specialization.

Non-thesis Plan

The non-thesis plan is designed for students who wish to enhance their knowledge and skills to succeed in careers as practicing engineers, but are unlikely to pursue a PhD or doctorate degree. A total of 33 semester hours of coursework is required for this plan. In addition to 6-9 semester hours of core courses, every student enrolled in this option is required to complete 21-24 semester hours of technical courses related to their discipline, and a 3-semester-hour graduate project course. A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Management Plan

Students who have been in the work arena and are moving into an engineering management role may wish to choose the management plan. A total of 36 semester hours of coursework is required for this plan. This consists of:

- 6-9 semester hours of core courses,
- 9-12 semester hours of business courses,
• 12-18 semester hours of technical courses, and
• a 3-semester-hour graduate project.

A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Civil and Environmental Engineering Requirements

At the time of initial enrollment, the student will select a program plan (thesis, non-thesis, or management) and technical concentration area (structural/geotechnical or environmental/water resources). The requirements for each program plan are listed in the general description of the Master of Science in Engineering program. Lists of required courses and possible electives for each plan may be obtained from the graduate program coordinator.

In cooperation with an assigned faculty advisor, each student will establish a set of academic goals and desired outcomes, and a coursework plan to meet those objectives. Upon completion of the graduate program, all students will complete either a written or an oral assessment of the effectiveness of the program in meeting their established goals and outcomes.

Thesis students, who have registered for all required thesis hours and have completed all course requirements but have not finished the thesis, are required to maintain current student status if they expect to utilize any University service (e.g., parking, computers, library, advisors’ assistance, thesis defense, etc.). This can normally be accomplished by registering for at least one hour of thesis credit.

Non-thesis students must complete a graduate project under the guidance of a faculty member. Students with management option should consult the graduate program coordinator to develop their coursework plan.

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<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 6910</td>
<td>Advanced Engineering Mathematics 1</td>
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<tr>
<td>MATH 6911</td>
<td>Advanced Engineering Mathematics 2</td>
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<tr>
<td>CEEN 5820</td>
<td>Pavement Material and Design</td>
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<tr>
<td>CEEN 5849</td>
<td>Structural Analysis 2</td>
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<tr>
<td>CEEN 5855</td>
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<td>CEEN 5856</td>
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<td>CEEN 6941</td>
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<td>CEEN 6959</td>
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<td>CEEN 6965</td>
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<td>CEEN 5832</td>
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<td>CEEN 5837</td>
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<td>CEEN 6921</td>
<td>Groundwater and Surface Water Modeling</td>
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<td>CEEN 6953</td>
<td>Flow Through Porous Media</td>
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<td>CEEN 6965A</td>
<td>Special Topic Design of Earth Structure</td>
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<td>CEEN 6967</td>
<td>Biological Treatment Processes</td>
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<tr>
<td>CEEN 6972</td>
<td>Advanced Topics in Environmental Engineering</td>
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<tr>
<td>CEEN 6977</td>
<td>Hydrology</td>
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<tr>
<td>CEEN 6978</td>
<td>Water Resources Policy and Management</td>
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<tr>
<td>CEEN 6979</td>
<td>Water Quality Modeling</td>
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<tr>
<td>CHEN 5820</td>
<td>Industrial Modeling</td>
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Learning Outcomes: Civil and Environmental Engineering

• an ability to formulate and solve advanced civil engineering problems;
• an ability to apply knowledge in a specialized area of civil and environmental engineering;
• an ability to design and conduct research projects;
• an understanding of business fundamentals, including project planning and management, asset management, leadership, and entrepreneurship;
• an understanding of the role of engineers in society.

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.

CEEN 6910  Advanced Strength of Materials  3 s.h.
The basic methods of structural mechanics, such as conditions of equilibrium and compatibility, stress-strain relations. General treatment of energy principles including virtual work, minimum potential energy; applications to statically determinate and indeterminate systems such as rings, curved beams, plates, and other elastic systems.

CEEN 6920  Wetlands Engineering  3 s.h.
Wetland characteristics-soils, hydrology, and vegetation; wetland functions and values; regulations; planning, theory, design and construction of created and constructed wetlands; applications in wetland mitigation, wastewater treatment, and pollution control.
Prereq.: CEEN 3736 Fundamentals of Environmental Engineering or equivalent.

CEEN 6921  Groundwater and Surface Water Modeling  3 s.h.
Mathematical simulation of hydrodynamic processes and pollutant transport in subsurface and surface water environments.

CEEN 6930  Sediment and Contaminant Transport  3 s.h.
Understanding of sediment and contaminant transport in fluvial environments. Topics include sediment characteristics, incipient motion, scour, bankfull discharge, advection, and mixing.
Prereq.: CEEN 3717 or equivalent.

CEEN 6941  Structural Mechanics  3 s.h.
Study of beams under lateral load; beams with combined lateral load and thrust; buckling beams on elastic foundations; applications of Fourier series and virtual work principles to beam type structures; stress and strain in three dimensions; applications to flexure of beams and plates and to constrained torsion; elements of engineering theory of plates.

CEEN 6947  Finite Element Analysis  3 s.h.
An introduction to finite element techniques as applied to problems in structural mechanics. Direct and variational methods of element formulation with application to beams, beam columns, frames, arches, thin plates, and shells.

CEEN 6951  Construction Project Management  3 s.h.
An integrated approach to construction project management. Advanced topics of Program Evaluation and Review Technique (PERT) and Critical Path Method (CPM) and its application in construction project scheduling. Resource allocation and leveling, construction cost control, computer simulation of construction operations, and expert systems construction.

CEEN 6952  Foundation Engineering  3 s.h.
Principles of mechanics of materials applied to foundation problems; stresses and deformations in soils, consolidation theory; shallow and deep foundation design.

CEEN 6953  Flow Through Porous Media  3 s.h.
Analysis of seepage volume and stresses due to flow of water through soils in connection with dams, slopes, excavations, subsurface drainage, and wells.

CEEN 6956  Advanced Soil Mechanics  3 s.h.
Development of shear strength theories, Mohr-Coulomb-Hvorslev equation, critical path concept, stability of slopes, lateral earth-pressure theories, development of bearing capacity equations.
Prereq.: CEEN 4881 or equivalent.

CEEN 6957  Structural Stability  3 s.h.
A study of the elastic stability of engineering structures, beam columns, static buckling of elastic beams, frames, plates, and shells, dynamic stability of beams and plates.

CEEN 6958  Structural Dynamics  3 s.h.
Analysis of the response of structures to air blasts and earthquake motions; development of both the normal mode and frequency response methods in dealing with periodic and nonperiodic excitations.

CEEN 6959  Advanced Steel Design  3 s.h.
Advanced topics in the structural design of girders, frames, and trusses. Light gauge metal structures. Use of modern alloys and hybrid systems.

CEEN 6961  Advanced Concrete Design  3 s.h.
Consideration of advanced design techniques for reinforced concrete members and structures such as composite and prestressed concrete beams, box girders, and slabs.

CEEN 6965  Special Topics  3 s.h.
The application, in civil engineering, of special topics selected by the faculty from fields of current research interest or special emphasis. May be repeated up to six semester hours.

CEEN 6967  Biological Treatment Processes  3 s.h.
Theory and design of biological processes used in the treatment of municipal and industrial wastewaters, and in the remediation of hazardous wastes.
Prereq.: CEEN 3736.

CEEN 6972  Advanced Topics in Environmental Engineering  3 s.h.
Advanced concepts related to the transport, reaction, phase distribution, and fate of pollutants in both the natural environment and treatment systems.
Prereq.: CEEN 3736.

CEEN 6973  Watershed Modeling  3 s.h.
Application of hydrologic principles for modeling point and non-point source pollution at the watershed scale; the nutrient and sediment transport simulation using SWAT model; understanding the fundamental processes of pollutant movement through the soils and overland flow; application of data driven modeling in Water Resources Engineering.
CEEN 6975 Physical and Chemical Treatment Processes 3 s.h.
Theory and design of physical and chemical processes used in the treatment of water supplies, wastewater, and hazardous wastes.
Prereq.: CEEN 3736.

CEEN 6976 Design of Small Dams 3 s.h.
Flood routing, reservoir engineering. Hydraulic design of small gravity, earth fill and rock fill dams, spillways, and energy dissipaters.
Prereq.: CEEN 3717 and CEEN 6977.

CEEN 6977 Hydrology 3 s.h.
Precipitation; hydrologic abstractions; runoff; urban and small watershed hydrology; frequency analysis; digital simulation.

CEEN 6978 Water Resources Policy and Management 3 s.h.
International, national, and local water resources case studies, laws, policies, and management strategies are discussed. The need and demand for water; technical, economic, financial, social, environmental, and political considerations; data requirements; multipurpose projects.

CEEN 6979 Water Quality Modeling 3 s.h.
Mathematical modeling of physical, chemical, and biological processes in natural systems; development of computer models to simulate the fate and transport of pollutants in lakes, streams, and estuaries; application of models to evaluate water resource management options.
Prereq.: CEEN 3736 Fundamentals of Environmental Engineering.

CEEN 6989 Graduate Projects 1-3 s.h.
Special projects involving research, analysis, design, or other independent investigation, undertaken by the M.S. student under the direction of a graduate faculty member with the approval of the department chair. Credit will be determined in each case based on the nature and extent of the project.

CEEN 6990 Thesis 1-9 s.h.
Hours arranged. May be repeated.

Admission Requirements

DEGREE PROGRAMS

Applicants must meet all of the general requirements for admission to the College of Graduate Studies. Admission to the program is selective and based on the qualifications of the applicant, the needs of the program, and the availability of funding. Applicants with lesser qualifications may be granted provisional graduate student status based on evaluation of their undergraduate records, standardized test (e.g. GRE) results, work experience, and other professional qualifications.

Engineering Management

Option Coordinator
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(330) 941-3023
hmehri@ysu.edu

Opinion Description

YSU is pleased to offer its online Master of Science in Engineering degree program with management option in a convenient, fully online format to students across the U.S. and around the world. Demand is increasing for technical professionals with strong managerial capabilities. Managing human resources, research and development projects, resources, systems and technology requires management skills and insight. The online Master in Engineering Management program at YSU is designed for engineering professionals who need to acquire and develop those management capabilities while maintaining their expertise in their technical specialties.

The online Engineering Master's degree curriculum combines engineering and business courses to develop a well-rounded engineer prepared to manage a technical organization. The program draws on the faculty and resources from the College of Science, Technology, Engineering and Mathematics and the Williamson College of Business Administration at YSU.

If you are a professional who currently holds a technical managerial role and would like to improve your skills, or if you are a professional who is planning on moving into an engineering technical management role, then this online Master in Engineering degree program is for you.

Admission Requirements

Applicants must meet all of the general requirements for admission to the College of Graduate Studies. Admission to the program is selective and based on the qualifications of the applicant, the needs of the program, and the availability of funding. Applicants with lesser qualifications may be granted provisional graduate student status based on evaluation of their undergraduate records, standardized test (e.g. GRE) results, work experience, and other professional qualifications.

Program Requirements

The online Master of Science in Engineering, Management (MEM) is a two-year program. The program starts Fall semester. The program requires completion of 30 credit hours.

COURSE	TITLE	S.H.
ISEN 6921	Engineering Statistics	
MGT 6941	Managing Organizational Talent	
ISEN 5881	Competitive Manufacturing Management	
FIN 6902	Financial Accounting and Finance for Decision Making	
ISEN 6920	Project Management	
MKTG 6943	Consumer & Product Management	
ISEN 6935	Decision Analysis for Engineering	
ISEN 6906	Supply Chain Engineering	
FIN 6923	Corporate Financial Management	
ACCT 6922	Cost Based Decision Making	
ISEN Electives

Learning Outcomes

• Demonstrate quantitative analytical and critical thinking skills and techniques to manage projects and processes (products and services).
• Examine a multidisciplinary approach involving the integration of engineering, management, quality and risk analysis in projects, and processes.
• Identify, prioritize and select relevant solutions in solving complex engineering problems and processes.
• Assess tools and techniques, resources, organizational systems, and decision-making processes for the successful management of projects.
• Apply global mindset and a detailed knowledge of business environments in engineering management solutions.
• Demonstrate organizational and team skills needed to manage projects and processes.

Electrical Engineering

Electrical Engineering

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xli@ysu.edu (jjalali@ysu.edu)

Option Description
The Department of Electrical and Computer Engineering provides opportunities for post-baccalaureate study toward the Master of Science in Engineering. These opportunities serve the practicing engineer as well as the student who wants to pursue advanced graduate study and research. Thesis, non-thesis, and management options/plans are available. Areas of study include control systems, digital systems, computer engineering, RF communications, computer-aided design, device and circuit modeling, solid-state devices, sensors, power systems and energy, power electronics, electromagnetic fields, electromechanical systems, and system analysis and design. The student is encouraged to interact with the faculty and explore these opportunities.

The Master of Science in Engineering may be characterized as being both career-oriented and flexible. Program plans and options are available to accommodate the needs of nearly every engineering graduate student. Graduate students enrolled in any of the engineering graduate programs must complete:

- 30 semester hours for the thesis plan,
- 33 semester hours for the nonthesis plan, or
- 36 semester hours for the management plan.

The degree requirements consist of core courses, technical courses, and project courses. The management plan also requires a series of business courses. These degree programs are designed to provide graduate students with the knowledge and skills to excel in professional careers and/or pursue a PhD or doctorate degree in engineering. To obtain a list of core and technical course requirements for a particular engineering discipline, students should contact the option coordinator for the program of interest.

Program Plans

Thesis Plan
Graduate students choosing the thesis plan are required to complete 30 semester hours of graduate coursework. This generally consists of:

- six to nine semester hours of core courses,
- 15-18 semester hours of technical concentration courses, and
- six semester hours of thesis.

This plan is strongly recommended for all candidates who wish to continue their graduate studies beyond the master's degree. The thesis provides firsthand experience with experimental design, literature searches, research methodology, technical report writing, and oral presentation of results. Additionally, the thesis option can lead the graduate student to a higher level of expertise in the chosen area of specialization.

Non-thesis Plan
The non-thesis plan is designed for students who wish to enhance their knowledge and skills to succeed in careers as practicing engineers, but are unlikely to pursue a PhD or doctorate degree. A total of 33 semester hours of coursework is required for this plan. In addition to 6-9 semester hours of core courses, every student enrolled in this option is required to complete 21-24 semester hours of technical courses related to their discipline, and a 3-semester-hour graduate project course. A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Management Plan
Students who have been in the work arena and are moving into an engineering management role may wish to choose the management plan. A total of 36 semester hours of coursework is required for this plan. This consists of:

- 6-9 semester hours of core courses,
- 9-12 semester hours of business courses,
- 12-18 semester hours of technical courses, and
- a 3-semester-hour graduate project.

A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Electrical Engineering Requirements
The basic degree requirements for each program plan are described under the general program description for the Master of Science in Engineering. Descriptions of course requirements and available electives for each program plan in the electrical engineering master's program can be obtained from the graduate option coordinator.

Within the first semester of graduate study, every graduate student must complete an option plan form signed by the student, academic advisor, and the department graduate option coordinator. The student may seek another advisor in case of interest changes. Likewise, the student-advisor relationship may be terminated at the advisor's recommendation. The graduate option coordinator is available to discuss these and other issues as appropriate.

Selected electrical engineering (ECEN) graduate courses are offered each semester based on the available teaching resources and student needs. Each graduate candidate is required to receive advising each semester from the department graduate option coordinator before registration. Based on the graduate student's academic background, work experience, and academic goals, the department graduate option coordinator may approve a student's request to substitute a graduate course not listed on the applicable program plan description.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>MATH 6910</td>
<td>Advanced Engineering Mathematics 1</td>
<td>3</td>
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<tr>
<td>MATH 6911</td>
<td>Advanced Engineering Mathematics 2</td>
<td>3</td>
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<td>or</td>
<td>MATH 6928</td>
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<td>or</td>
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Technical Courses

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>ECEN 6901</td>
<td>Control Systems 1</td>
<td>3</td>
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<tr>
<td>ECEN 6902</td>
<td>Control Systems 2</td>
<td>3</td>
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<tr>
<td>ECEN 6903</td>
<td>Advanced Control Systems</td>
<td>3</td>
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<tr>
<td>ECEN 6911</td>
<td>Electromagnetic Fields 1</td>
<td>3</td>
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<tr>
<td>ECEN 6912</td>
<td>Electromagnetic Fields 2</td>
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<tr>
<td>ECEN 6933</td>
<td>Digital Systems: VHDL Design</td>
<td>3</td>
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<td>ECEN 6934</td>
<td>Digital Systems: Computer Arithmetic</td>
<td>3</td>
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<td>ECEN 6981</td>
<td>Electric Power System Engineering</td>
<td>3</td>
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<td>ECEN 6983</td>
<td>Modern Power Sources</td>
<td>3</td>
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<tr>
<td>ECEN 6985</td>
<td>Electromechanical Motion Devices</td>
<td>3</td>
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<tr>
<td>ECEN 6986</td>
<td>Power Electronics Circuits and Devices</td>
<td>3</td>
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<tr>
<td>ECEN 6987</td>
<td>Power Electronics and Industrial Drives</td>
<td>3</td>
</tr>
<tr>
<td>ECEN 6900</td>
<td>Seminar (May be repeated once.)</td>
<td>1-3</td>
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ECEN Swing courses
Learning Outcomes: Electrical Engineering

The Department graduate program offers diverse educational opportunities and prepares its students to:

- Advance their mathematical knowledge and application of electrical engineering;
- Obtain depth of knowledge in specific electrical engineering disciplines;
- Conduct research and develop new ideas for engineering practice;
- Understand methodologies and their applications;
- Enhance their technical writing and oral communication skills.

ECEN 5807 Advanced Digital and Analog Circuits 3 s.h.
Chip circuitry for devices such as BJT, 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, and 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.
Applicable technologies and "real-world" communication components and systems. Design and analysis tools. Emerging technologies, "killer apps", networking, data acquisition, and convergence.
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.
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.
SCRs, 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.

ECEN 6900 Seminar 1-3 s.h.
Designed to examine topics in the field. May be repeated once.

ECEN 6901 Control Systems 1 3 s.h.

ECEN 6902 Control Systems 2 3 s.h.
Prereq.: ECEN 6901.

ECEN 6903 Advanced Control Systems 3 s.h.
Introduction to nonlinear control systems: basic nonlinear phenomena, describing functions, Lyapunov stability, linearization techniques. Introduction to linear optimal quadratic control; stochastic modeling and Kalman filtering.
Prereq.: ECEN 6902.

ECEN 6911 Electromagnetic Fields 1 3 s.h.
Solution of boundary value problems in general form. Laplace, Poisson, and diffusion and wave equations in orthogonal coordinate systems.

ECEN 6912 Electromagnetic Fields 2 3 s.h.
Solution of boundary value problems in general form. Laplace, Poisson, and diffusion and wave equations in orthogonal coordinate systems.

ECEN 6933 Digital Systems: VHDL Design 3 s.h.
Local minimization, design of combinational networks; design of synchronous and asynchronous sequential machines; design of digital systems using VHDL, modeling combinational and sequential networks, compilation, simulation, and synthesis of VHDL codes.
ECEN 6934 Digital Systems: Computer Arithmetic 3 s.h.  
Number system representations: standard and unconventional formats.  
Prereq.: ECEN 6933.

ECEN 6981 Electric Power System Engineering 3 s.h.  
The formulation of equations to study electric power network problems, including feeders, power flow, short circuits, protection systems, and stability.  
The study of power system over voltages and transients caused by short circuits, switching, and lightning. The application of numerical techniques to study and design special projects using digital computations.

ECEN 6983 Modern Power Sources 3 s.h.  
Analytical and descriptive study of modern power plants. Combustion and environmental problems with fossil-fueled power plants. Electromagnetic circuits and devices with emphasis on the principles of electromechanical energy conversions.  
Cross-listed: CHEN 6983 and MECH 6983.

ECEN 6985 Electromechanical Motion Devices 3 s.h.  
Thermodynamics of batteries, and of electric and fuel cells. Power from nuclear isotopes. Features common to rotating electromagnetic fields. Analysis and design of electromechanical power components. Logic circuit design with I/O structure and interface.  
Cross-listed: CHEN 6985 and MECH 6985.

ECEN 6986 Power Electronics Circuits and Devices 3 s.h.  
The design and analysis of power electronic circuits using solid-state switching devices. Topics include power semiconductor diodes and transistors, diode circuits and controlled rectifiers, thyristors, communication techniques, AC voltage controllers, and switching regulators, with applications.

ECEN 6987 Power Electronics and Industrial Drives 3 s.h.  
The design and analysis of power electronic circuits and systems, static switches, power supplies, AC and DC drives, and protection of power electronic devices and circuits.

ECEN 6988 Nano- and Micro-Electro Mechanical Systems 3 s.h.  
NEMS and MEMS fabrications, elastic system structure, membranes and plates, magnetically actuated systems, continuum theory and scaling laws. Microfluidics and nanofluidics devices.  
Prereq.: Graduate standing.

ECEN 6990 Thesis 1-6 s.h.

Admission Requirements
DEGREE PROGRAMS
Applicants must meet all of the general requirements for admission to the College of Graduate Studies. Admission to the program is selective and based on the qualifications of the applicant, the needs of the program, and the availability of funding. Applicants with lesser qualifications may be granted provisional graduate student status based on evaluation of their undergraduate records, standardized test (e.g. GRE) results, work experience, and other professional qualifications.

Industrial and Systems Engineering

Option Coordinator
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mehri@ysu.edu

Option Description
The industrial engineering program option provides opportunities for interdisciplinary graduate studies toward the Master of Science in Engineering with specialization in engineering management or industrial/manufacturing systems engineering. Students can also pursue study focused on specialized areas of industrial and systems engineering, such as operations research.

All study plans are interdisciplinary and include some coursework from outside the department. They are designed to serve practicing engineers, as well as those students who want to pursue advanced graduate studies beyond the Master of Science in engineering.

The Master of Science in Engineering may be characterized as being both career-oriented and flexible. Program plans and options are available to accommodate the needs of nearly every engineering graduate student. Graduate students enrolled in any of the engineering graduate programs must complete:

- 30 semester hours for the thesis plan,
- 33 semester hours for the nonthesis plan, or
- 36 semester hours for the management plan.

The degree requirements consist of core courses, technical courses, and project courses. The management plan also requires a series of business courses. These degree programs are designed to provide graduate students with the knowledge and skills to excel in professional careers and/or pursue a PhD or doctorate degree in engineering. To obtain a list of core and technical course requirements for a particular engineering discipline, students should contact the option coordinator for the program of interest.

Program Plans

Thesis Plan
Graduate students choosing the thesis plan are required to complete 30 semester hours of graduate coursework. This generally consists of:

- six to nine semester hours of core courses,
- 15-18 semester hours of technical concentration courses, and
- six semester hours of thesis.

This plan is strongly recommended for all candidates who wish to continue their graduate studies beyond the master's degree. The thesis provides firsthand experience with experimental design, literature searches, research methodology, technical report writing, and oral presentation of results. Additionally, the thesis option can lead the graduate student to a higher level of expertise in the chosen area of specialization.

Non-thesis Plan
The non-thesis plan is designed for students who wish to enhance their knowledge and skills to succeed in careers as practicing engineers, but are unlikely to pursue a PhD or doctorate degree. A total of 33 semester hours of coursework is required for this plan. In addition to 6-9 semester hours of core courses, every student enrolled in this option is required to complete 21-24 semester hours of technical courses related to their discipline, and a 3-semester-hour graduate project course. A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Management Plan
Students who have been in the work arena and are moving into an engineering management role may wish to choose the management plan. A total of 36 semester hours of coursework is required for this plan. This consists of:

- 6-9 semester hours of core courses,
- 9-12 semester hours of business courses,
- 12-18 semester hours of technical courses, and
- a 3-semester-hour graduate project.
A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Chemical Engineering Requirements
At the time of initial enrollment, the student will select a program plan (thesis, non-thesis, or management) and technical area of interest (e.g., chemical processes, biochemical, environmental, materials). The degree requirements for each program plan are listed in the general description of the Master of Science in Engineering program. A list of required courses and possible electives for each plan may be obtained from the program coordinator.

In cooperation with an assigned faculty advisor, each student will establish a set of academic goals and desired outcomes, and a coursework plan to meet those objectives. Upon completion of the graduate program, all students will complete either a written or an oral assessment of the effectiveness of the program in meeting their established goals and outcomes.

Thesis students who have registered for all required thesis hours and have completed all course requirements but have not finished the thesis are required to maintain current student status if they expect to utilize any University service (e.g., parking, computers, library, advisors’ assistance, thesis defense, etc.). This can normally be accomplished by registering for at least one hour of thesis credit.

Industrial and Systems Engineering Requirements
At the time of initial enrollment, the student will select a program plan (thesis, non-thesis, or management) and technical area of concentration (engineering management, industrial/manufacturing systems engineering, operations research, etc.) The requirements for each option are enumerated in the general description of the Master of Science in Engineering program. Lists of required courses and possible electives for each plan may be obtained from the program option coordinator. Every graduate student is responsible for selecting an area of specializations by signing a special form designed for this purpose. A student may change his or her area of concentration or program of study in consultation with his or her advisor.

In cooperation with an assigned faculty advisor, each student will establish a set of academic goals and desired outcomes, and a coursework plan to meet those objectives. Courses taken without the permission of the advisor may not be used to meet the degree requirements.

Thesis students who have registered for all required thesis hours and have completed all course requirements but have not finished the thesis are required to maintain current student status if they expect to utilize any University service (e.g., parking, computers, library, advisors’ assistance, thesis defense, etc.). This can normally be accomplished by registering for at least one hour of thesis credit in ISEN 6990 Special Topics.

Learning Outcomes
The student outcomes of the master’s degree in ISE are:

1. Student will be able to use and apply discipline knowledge effectively and provide leadership (interpret, analyze and implement solutions to problems/challenges) within an organization.
2. Student will be able to form, facilitate, lead, coordinate and participate in teams.
3. Student will be able to understand organizational processes and behaviors.
4. Student will have a graduate level knowledge of methodological and computational skills with which able to apply effectively.
5. Student will have a graduate level proficiency in collecting, analyzing, and interpreting data.
6. Student will have graduate level proficiency in approaching unstructured problems and synthesizing and designing solutions for this problem.
7. Student will have a graduate level proficiency in evaluating the impact of these solutions in the broader context of the organization and society.
8. Student will have a graduate level proficiency in effectively presenting and communicating solutions in the form of written, oral and electronic media.
9. Student will be able to develop skills to support life-long learning within the field of profession of ISE.

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 I 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 queueing models and the specialization of linear models to equipment replacement, project planning, assignment, and transshipment problems.
Prereq.: ISEN 5801.
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.

ISEN 6901  Optimization Techniques  3 s.h.
A study of the theory of optimization and its application to problems from several engineering disciplines. The principles will be applied to constrained and unconstrained engineering problems. Algorithms will be developed for solving optimization problems, which can be formulated as linear, nonlinear, integer, or dynamic programming models.

ISEN 6902  Digital Simulation  3 s.h.
A study of simulation methods using digital computers, random number generation, Monte Carlo techniques, queuing models, and analysis of simulation output. The student will be provided the opportunity to simulate moderately complex systems on digital computers. Primary emphasis will be on models of technical, scientific, and economic systems.

ISEN 6905  Applied Statistics for Design, Quality, and Productivity  3 s.h.
Review of probability and statistics, uncertainty and decision making, statistical inference, and analyzing sources of variation. Risk and reliability, risk assessment, robust and quality design, regression analysis, and analysis of variance. Design of experiments, single-factor and multifactor experiments, design of experiments for product characteristics, process characteristics, and process optimization. General statistical process control, special charts and sampling techniques for control, monitoring, and auditing quality. Economic issues in process/quality control.
Prereq.: ISEN 3710 Engineering Statistics or equivalent.

ISEN 6906  Supply Chain Engineering  3 s.h.
In an expanding global economy, efficient and responsive supply chains are critical to business success. This course explores key aspects of supply chain engineering with an emphasis on mathematical approaches to supply chain analysis. Topics include demand forecasting, inventory modeling and control, facility location, capacity planning, transportation, warehousing, scheduling, material requirements planning and procurement.
Prereq.: ISEN 3710/ISEN 6921 and consent of instructor.

ISEN 6908  Logistics Engineering and Mgt  3 s.h.
Study of logistics from a systems engineering perspective. Covers design of systems for supportability and serviceability, the production and effective distribution of systems for customer use, and the sustaining maintenance and support of systems throughout their period of utilization.
Prereq.: ISEN 3720, ISEN 5801 or consent of the instructor.

ISEN 6910  Design and Analysis Experiment  3 s.h.
For professionals from business and industry, and students. Specific topics will be announced each time the workshop is offered. Credit hours based on frequency and duration of workshop meetings.

ISEN 6920  Project Management  3 s.h.
Methods for planning, organizing, scheduling, supporting, and controlling projects. Network techniques, including CPM, PERT, and time-cost trade-off analysis. Techniques for the estimation of time, manpower, and other resource requirements of the projects, including economic and statistical analysis, forecasting, learning curves, and line balancing. Management of time and other resources involved. Case studies and utilization of computer resources for the analysis and presentation of projects.
Prereq.: graduate standing in STEM college.

ISEN 6921  Engineering Statistics  3 s.h.
Development and application of stochastic models of engineering systems. Elementary probability models applied to decision making under uncertainty. Development and use of theoretical probability distributions for describing stochastic systems. Models for point and confidence interval estimation and models for correlation analysis applied to engineering problems.
Prereq.: ISEN 3710 or equivalent.

ISEN 6930  Microcomputer Models for Deterministic Engineering Systems  3 s.h.
Microcomputer model development, implementation, evaluation, and application for deterministic engineering systems. Recognition of engineering systems amenable to analysis as deterministic microcomputer models. Determination of model structure, identification of model parameters, verification of model validity, exercising the model, and interpretation of results.

ISEN 6935  Decision Analysis for Engineering  3 s.h.
Review of probability and statistics, subjective probability, probability models, using data, Monte Carlo simulation, and value of information. Introduction to decision analysis, elements of decision problems, structuring decisions, making choices, creativity, and decision making. Risk attitudes, utility axioms, paradoxes, and conflicting objectives.
Prereq.: ISEN 3710 Engineering Statistics or equivalent, or permission of instructor.

ISEN 6970  Advanced Manufacturing Processes 1  3 s.h.
Advanced manufacturing processes for metallic materials. Included are continuous casting, powder techniques, fluidized bed reactors, and directional solidification.

ISEN 6971  Advanced Manufacturing Processes 2  3 s.h.
Advanced manufacturing processes for nonmetallic materials. Included are sintering, slip casting, plastic forming techniques, and extrusion of nonplastic materials.

ISEN 6990  Special Topics  3 s.h.
Special topics in industrial/manufacturing systems engineering covering areas not otherwise available. Topics are selected by the faculty from fields of current research interest or special emphasis and may vary from semester to semester. May be repeated for a maximum of six semester hours.

ISEN 6992  Graduate Projects  3 s.h.
Analysis, design, research, or other independent investigation on projects selected with the advice and approval of the student’s graduate committee.
Prereq.: Permission of instructor.
ISEN 6999  Thesis  1-6 s.h.
Hours arranged. May be repeated.

Admission Requirements

DEGREE PROGRAMS

Applicants must meet all of the general requirements for admission to the College of Graduate Studies. Admission to the program is selective and based on the qualifications of the applicant, the needs of the program, and the availability of funding. Applicants with lesser qualifications may be granted provisional graduate student status based on evaluation of their undergraduate records, standardized test (e.g. GRE) results, work experience, and other professional qualifications.

Mechanical Engineering

Option Coordinator
Virgil Solomon
2505 Moser Hall
(330) 941-1730
vcsolomon@ysu.edu

Option Description
The program option in mechanical engineering offers the Master of Science in Engineering with specialization within the general mechanical engineering disciplines. Specializations are available in the areas of mechanical analysis/design and fluid thermal systems. The thesis and non-thesis plans are for students who seek to deepen their theoretical knowledge and strengthen their ability to solve more advanced engineering problems, while the management
plan is for those who wish to include managerial training in their program of preparation.

The Department of Mechanical Engineering has excellent computer and laboratory facilities that provide for the following design and research capabilities: solid modeling, FEA in stress analysis, structural dynamics and heat transfer, experimental stress analysis, vibrations and noise control, computational and experimental heat transfer and fluid dynamics, and advanced machine design.

The Master of Science in Engineering may be characterized as being both career-oriented and flexible. Program plans and options are available to accommodate the needs of nearly every engineering graduate student. Graduate students enrolled in any of the engineering graduate programs must complete:

- 30 semester hours for the thesis plan,
- 33 semester hours for the non-thesis plan, or
- 36 semester hours for the management plan.

The degree requirements consist of core courses, technical courses, and project courses. The management plan also requires a series of business courses. These degree programs are designed to provide graduate students with the knowledge and skills to excel in professional careers and/or pursue a PhD or doctorate degree in engineering. To obtain a list of core and technical course requirements for a particular engineering discipline, students should contact the option coordinator for the program of interest.

Program Plans

Thesis Plan

Graduate students choosing the thesis plan are required to complete 30 semester hours of graduate coursework. This generally consists of:

- six to nine semester hours of core courses,
- 15-18 semester hours of technical concentration courses, and
- six semester hours of thesis.

This plan is strongly recommended for all candidates who wish to continue their graduate studies beyond the master’s degree. The thesis provides firsthand experience with experimental design, literature searches, research methodology, technical report writing, and oral presentation of results. Additionally, the thesis option can lead the graduate student to a higher level of expertise in the chosen area of specialization.

Non-thesis Plan

The non-thesis plan is designed for students who wish to enhance their knowledge and skills to succeed in careers as practicing engineers, but are unlikely to pursue a PhD or doctorate degree. A total of 33 semester hours of coursework is required for this plan. In addition to 6-9 semester hours of core courses, every student enrolled in this option is required to complete 21-24 semester hours of technical courses related to their discipline, and a 3-semester-hour graduate project course. A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Management Plan

Students who have been in the work arena and are moving into an engineering management role may wish to choose the management plan. A total of 36 semester hours of coursework is required for this plan. This consists of:

- 6-9 semester hours of core courses,
- 9-12 semester hours of business courses,
- 12-18 semester hours of technical courses, and
- a 3-semester-hour graduate project.

A graduate student enrolled in a graduate project course will be required to defend the results of his or her project by giving a presentation to the engineering faculty and students.

Mechanical Engineering Requirements

At the time of initial enrollment, the student will select a program plan (thesis, non-thesis, or management) and technical concentration area (mechanical analysis/design of rigid and deformable bodies, analysis/design of thermal-fluid systems, etc.). The requirements for each option are listed in the general description of the Master of Science in Engineering program. Lists of required courses and possible electives for each plan may be obtained from the graduate program option coordinator. In cooperation with an assigned faculty adviser, each student will establish a set of academic goals and desired outcomes, and a coursework plan to meet those objectives.

Thesis students who have registered for all required thesis hours and have completed all course requirements but have not finished the thesis are required to maintain current student status if they expect to utilize any University service (e.g., parking, computers, library, advisors’ assistance, thesis defense, etc.). This can normally be accomplished by registering for at least one hour of thesis credit in MECH 6990 Thesis.

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<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tbody>
<tr>
<td>MATH 6910</td>
<td>Advanced Engineering Mathematics 1</td>
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<tr>
<td>MATH 6911</td>
<td>Advanced Engineering Mathematics 2</td>
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<td>MECH 6904</td>
<td>Advanced Thermodynamics</td>
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<td>MECH 6915</td>
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<td>MECH 6925</td>
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<td>MECH 6930</td>
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<td>MECH 5892</td>
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<td>MECH 6990</td>
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<td>MECH 6991</td>
<td>Thesis</td>
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1. Demonstrate subject mastery and competence in the area of mechanical engineering specialization in order to practice as an influential mechanical engineer.
2. Demonstrate the ability to use common theoretical, experimental, and computational techniques in mechanical engineering.
3. Demonstrate the ability to use effectively oral and written communication to convey engineering concepts to a broad audience and to successfully practice engineering in a multi-disciplinary team.
4. Demonstrate an understanding of the need for, and ability to engage in life-long learning by participation in professional societies, professional registration, publications, technical and scientific presentations at professional meetings, enrollment in a doctoral program, etc.
5. Demonstrate an understanding of the impact of engineering solutions in a global, environmental, social, and economic context. Understand the importance of sustainability in contemporary global context.
6. Demonstrate the ability to conduct independent research relevant to solve in an original and effective manner the problem(s) at hand.
7. Demonstrate an understanding of professionally and ethically responsible practices in mechanical engineering.

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.
Theory of prime movers, turbomachinery, and control systems. Modeling
of hydraulic and pneumatic systems and components. Hydraulic fluids,
pumps, cylinders, valves, motors, compressors, and actuators. Hydraulic and
pneumatic circuit applications and control.
Prereq.: MECH 3725.

MECH 5842 Kinetics of Machines 3 s.h.
Three dimensional kinematics and dynamics of machines. Dynamic analysis
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 strain 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.

MECH 6900 Special Topics 2-4 s.h.
Special topics and new developments in mechanical engineering. Subject
matter and credit hours to be announced in advance of each offering. May be
taken three times.
Prereq.: As announced or permission of instructor.

MECH 6904 Advanced Thermodynamics 3 s.h.
Laws of equilibrium thermodynamics; relations between properties and
aspects of the Second Law. Exergy analysis. Macroscopic and microscopic
considerations for the prediction of properties. Microscopic description based
on classical and quantum statistics. General stability criteria, statistical
equilibrium, and trend toward equilibrium fluctuations.
Prereq.: Permission of graduate advisor.

MECH 6915 Failure Analysis 3 s.h.
Advanced methods in failure analysis of metallics, ceramics, polymers, and
composites. Numerous practical examples will be discussed. Individual
student projects using scanning electron microscopy are required. Three hours
lecture and three hours laboratory.

MECH 6925 Computational Heat Transfer 3 s.h.
Numerical modeling techniques and methods in heat transfer. Computational
analysis of conduction and convection by the finite element method, finite
difference method, and the method of coordinate transformation.
Prereq.: MATH 3705 Differential Equations and MECH 3725 Heat Transfer I, or
permission of instructor.

MECH 6930 Advanced Fluid Mechanics and Heat Transfer 3 s.h.
Viscous and inviscid flows, Navier-Stokes equations, Euler equations, and
complex variables methods. Analytic solutions to advanced heat transfer
problems, advanced boundary-value problems.
Prereq.: MECH 3725 Heat Transfer I or equivalent.

MECH 6945 Advanced Dynamics 3 s.h.
Three-dimensional vector statics; kinematics and kinetics of particles and
rigid bodies; energy, momentum, and stability. LaGrange's equations of motion
for particles and rigid bodies impulse; small oscillations; nonholonomic and
dissipative systems.
Prereq.: Permission of graduate advisor.

MECH 6952 Applied Elasticity 3 s.h.
Equations or equilibrium, compatibility and boundary conditions-their
applications to plane stress and plane strain problems. Stress functions,
strain energy methods, stress distribution in anile symmetrical bodies; special
problems in structures involving torsion and bending of prismatical bars.
Prereq.: MECH 3751 Stress and Strain Analysis I or equivalent, or permission
of graduate advisor.

MECH 6962 Mechanical Design Analysis 3 s.h.
The study of analytical aspects and the application of engineering science
topics to machine elements and machinery. Some case studies in mechanical
design.
Prereq.: Permission of graduate advisor.

MECH 6963 Advanced Stress Analysis 3 s.h.
Theory and engineering applications of the most recent techniques of
experimental stress analysis, brittle coatings, photoelasticity, strain gauges,
photostress.
Prereq.: MECH 3751 Stress and Strain Analysis I or equivalent or permission
of graduate advisor.

MECH 6983 Modern Power Sources 3 s.h.
Analytical and descriptive study of modern power plants. Combustion and
environmental problems with fossil-fueled power plants. Electromagnetic
circuits and devices with emphasis on the principles of electromechanical
energy conversions. Cross-listed as CHEN 6983 and ECEN 6983.
Prereq.: Permission of graduate advisor.

MECH 6985 Electromechanical Motion Devices 3 s.h.
The thermodynamics of batteries, fuel cells; energy storage; fuel cells. Power from nuclear
isotopes. Features common to rotating electromagnetic fields. Analysis and
design of electromechanical power components. Logical circuit design with
logic and interface. Cross-listed as CHEN 6985 and ECEN 6985.
MECH 6990  Thesis  2-6 s.h.

MECH 6992  Graduate Projects  3 s.h.
Analysis, design, research, or other independent investigation on projects selected with the advice and approval of the student's graduate committee.

Admission Requirements
DEGREE PROGRAMS
Applicants must meet all of the general requirements for admission to the College of Graduate Studies. Admission to the program is selective and based on the qualifications of the applicant, the needs of the program, and the availability of funding. Applicants with lesser qualifications may be granted provisional graduate student status based on evaluation of their undergraduate records, standardized test (e.g. GRE) results, work experience, and other professional qualifications.

Master of Science in Nursing
Clinical Options
• Adult-Gerontology Acute Care Nurse Practitioner
• Family Nurse Practitioner (FNP)
• Nurse Education

Post-master's Certificates
• Adult-Gerontology Acute Care Nurse Practitioner
• Family Nurse Practitioner (FNP)
• Nurse Education

Non Degree Licensure Option
• School Nurse Licensure

MSN Program Director
Dr. Valerie O'Dell
3132 Cushwa Hall
(330) 941-2177
vmodell@ysu.edu

Program Description
The Master of Science in Nursing program is designed for baccalaureate-prepared nurses who have strong undergraduate foundations in critical thinking, decision-making, and nursing practice. The program consists of three program options, with specialization in Adult-Gerontology Acute Care Nurse Practitioner, Family Nurse Practitioner and Nursing Education, and three post-master's certificates in Adult-Gerontology Acute Care Nurse Practitioner, Family Nurse Practitioner and Nurse Education. The Centofanti School of Nursing also offers a non-degree School Nurse certificate.

The core curriculum centers on professional nursing issues, nursing science, and research methods for building nursing knowledge. The Family Nurse Practitioner option focuses on the delivery of primary care to families and persons of all ages within the health care delivery system. The Adult-Gerontology Acute Care Nurse Practitioner option focuses on providing direct acute care to adult and older adult individuals and families. The Nursing Education option focuses on delivery of nursing and patient education to individuals in academic, health-care delivery and community settings. The non-degree School Nurse certificate focuses on delivery of comprehensive care to individuals in the school environment.

The Master of Science in Nursing program is fully accredited by the Commission on Collegiate Nursing Education (CCNE). For additional information regarding accreditation, contact CCNE.
NURS 6909  Anesthesia Principles 1  2 s.h.
This course describes anesthesia equipment and hemodynamic monitoring in the operating room setting. It also explores the pharmacological and cardiovascular systems and includes in depth assessment of the airway, lungs, heart, and vasculature. Evaluation of anesthesia considerations for patients who have pathological conditions of these systems will take place.
Prereq.: Admission to the YSU MSN program, Nurse Anesthesia option.

NURS 6910  Professional Aspects of Nurse Anesthesia  3 s.h.
Ethics, legal aspects, and professional issues associated with a career in nurse anesthesia. Includes a history of anesthesia and the role of certified registered nurse anesthetists (CRNA).
Prereq.: Acceptance into nurse anesthesia option.

NURS 6911  Pharmacology 1 for Nurse Anesthetists  3 s.h.
Basic principles of pharmacology including drug effectiveness, mechanism of action, and drug interactions. Emphasis on pharmacological action of drugs on specific organ systems and use in treatment of disease conditions.
Prereq.: Acceptance into nurse anesthesia option.

NURS 6912  Pharmacology 2 for Nurse Anesthetists  3 s.h.
Comprehensive study of drugs and adjunctive agents used in anesthesia practice. Includes a review of inhalation and intravenous anesthetics, local anesthetics, neuromuscular blocking agents, and adjunctive drugs.
Prereq.: NURS 6911.

NURS 6913  Medical Chemistry and Physics for Nurse Anesthetists  3 s.h.
Application of organic chemistry, biochemistry, and medical physics in the practice of anesthesia.
Prereq.: Acceptance into nurse anesthesia option.

NURS 6914  Human Anatomy, Physiology, and Pathophysiology 1 for Nurse Anesthetists  3 s.h.
Study of the structure and function of the human body.
Prereq.: Acceptance into nurse anesthesia option.

NURS 6916  Anesthesia Principles 2  3 s.h.
Introduction to anesthesia practice and techniques, including preoperative assessments, anesthesia drugs, care plan development and implementation, and safety issues.
Prereq.: NURS 6909 and acceptance into Nurse Anesthesia Option.

NURS 6917  Differential Diagnosis  3 s.h.
Developing diagnostic reasoning skill through comprehensive analysis of present and past histories, physical findings, and diagnostic studies that contribute to differential diagnoses of major health problems across the lifespan. The client is assessed from a holistic advanced practice perspective with consideration of individual culture, social, family, and community environments.
Prereq.: NURS 6902.

NURS 6918  Advanced Diagnostics and Technologies  3 s.h.
Theory and technical skills essential to the advanced practice environment. Focuses on select technologies, informatics, telehealth, common procedures, and diagnostic tests encountered by advanced practice nurses in the clinical/practice setting.

NURS 6920  Special Topics  1-4 s.h.
Topics may vary from semester to semester and will be announced along with prerequisites and hours. May be repeated. S/U grading.

NURS 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. This course will be cross-listed with GERO 6998.

NURS 7000  Adult and Gerontology Care  3 s.h.
Advanced nursing management of adult and geriatric health care needs. Taken concurrently with NURS 7001.
Prereq.: NURS 6904, NURS 6905, and NURS 6998.

NURS 7002  Nursing Science and Research 2  3 s.h.
Continuation of NURS 6901, focusing on design, instrumentation, data collection methods, data analysis and data interpretation.
Prereq.: NURS 6901 and NURS 6906.

NURS 7003  Role Development in Advanced Practice  3 s.h.
The examination of concepts, theories, and research related to advanced practice role. Explores the history and overview of the role of the advanced practice nurse as provider, consultant, educator, researcher, and leader in practice. Examines select legal, practice, and ethical issues in advanced practice.

NURS 7004  Role Development Practicum  2 s.h.
Application of concepts, theories, and research through practicum hours in a variety of settings.
Prereq.: NURS 7029 or NURS 7042.

NURS 7005  Capstone Practicum  3 s.h.
Culminating course of the MSN program. Synthesis of learned concepts and theories in the form of an individual scholarly project and dissemination of findings under the direction of a graduate faculty member.
Prereq.: Completion of all graduate nursing coursework and approval of the MSN faculty committee.

NURS 7006  Special Topics in Nursing  1-5 s.h.
Special interest nursing topics selected by the faculty which reflect current trends and issues in nursing practice. May be repeated as desired.

NURS 7008  Schools and Health  3 s.h.
Population focus survey of children’s health issues and K-12 schools using CDC Coordinated School Health Program model as an organizing framework. Topics include school health policy, relationship of health and academic outcomes, and Youth Risk Behavioral Surveillance (YRBSS). Current research infused into the course.
Prereq.: Enrollment in school nurse licensure program.
Cross-listed: MPH 7008.

NURS 7010  Human Anatomy, Physiology, and Pathophysiology 2 for Nurse Anesthetists  3 s.h.
NURS 6914 Continuation of Anatomy, Physiology, and Pathophysiology I with further emphasis on cardiovascular, respiratory, renal, hepatic, and endocrine systems.
Prereq.: NURS 6914.

NURS 7011  Anesthesia Principles 3  5 s.h.
Examines specific anesthetic techniques used in a variety of surgical procedures.
Prereq.: NURS 6916.

NURS 7012  Anesthesia Principles 4  6 s.h.
Administration of anesthesia for high-risk patients.
Prereq.: NURS 7011.

NURS 7014  Health Management in Schools  3 s.h.
Advanced nursing management of health care needs of children in schools, pre-K through high school.
Prereq.: NURS 6907 or enrollment in school nurse licensure program.

NURS 7015  Health Management in Schools Practicum  2 s.h.
Application of knowledge and skills from NURS 7014, focusing on advanced nursing management of health care needs of children in schools, pre-K through high school. To be taken concurrently with NURS 7014.
Prereq.: NURS 6907.

NURS 7016  School Nurse Role  3 s.h.
Examination of concepts, theories, and research related to advanced practice role development, teaching, learning, technology, evaluation strategies, leadership, marketing skills, and health care delivery in school settings.
Prereq.: NURS 7014 or enrollment in the school nurse licensure program.

NURS 7017  School Nurse Role Practicum  1-5 s.h.
Application of concepts, theories, and research from school nurse courses in a variety of settings.
NURS 7018  Nursing Curriculum Design  3 s.h.
Focus on nursing curriculum development, design, and implementation. Foundations of nursing curriculum, curriculum designs, and development of frameworks and learning strategies to achieve outcomes, and competencies in nursing education.

NURS 7019  Nursing Instructional Methods  3 s.h.
Theoretical foundations and analysis of teaching strategies in academic and clinical settings promoting critical thinking, clinical judgment, assessment techniques, and learning outcomes in a variety of nursing education and healthcare settings.

NURS 7020  Evaluation in Nursing Education  3 s.h.
Methods, frameworks, basic principles, and strategies for nursing educational evaluation, including assessment, designs, curriculum and program evaluation tools, agency accreditation processes, and measurement tools of scoring and grading.

NURS 7021  Nurse Educator Role  3 s.h.
Examination of concepts, theories and research related to the nurse educator advanced practice role development including teaching, learning, technology, evaluation strategies, leadership, marketing skills, and nursing education practice in academic and health care delivery settings.

NURS 7022  Nurse Educator Role Practicum  3 s.h.
Field experience and application of concepts, theories, research findings, teaching strategies, learning, technology, evaluation strategies, leadership, and marketing skills from nursing education courses in a variety of nursing education and healthcare settings. This practicum will consist of 150 hours.
Prereq.: NURS 7018, NURS 7019, NURS 7020 and NURS 7021.

NURS 7024  Family and Women's Health  3 s.h.
Primary health care management of family and women in diverse settings. Emphasizes health promotion, illness prevention, disease detection, and identification and management of health problems and concerns affecting families and women throughout the lifespan. Taken concurrently with NURS 7025.
Prereq.: NURS 6903 (or concurrent), NURS 6902, NURS 6904.

NURS 7025  Family and Women’s Health Practicum  2 s.h.
Application of concepts, theories and research from NURS 7024 in a variety of health care settings. Taken concurrently with NURS 7024.
Prereq.: NURS 6903 (or concurrent), NURS 6902, NURS 6904.

NURS 7026  Infant, Child and Adolescent Health  3 s.h.
Primary health care management of infants, children and adolescents in diverse settings. Emphasis on health promotion, illness prevention, disease detection, and identification and management of health problems and concerns from infancy through adolescence.
Prereq.: NURS 6902, NURS 6903, NURS 6904, NURS 7026 and NURS 7027.
Coreq.: NURS 7027.

NURS 7027  Infant, Child and Adolescent Health Practicum  2 s.h.
Application of concepts, theories and research from NURS 7026 in a variety of health care settings.
Prereq.: NURS 6902, NURS 6903, NURS 6904, NURS 7024 and NURS 7025.
Coreq.: NURS 7026.

NURS 7028  Adult and Older Adult Health  3 s.h.
Primary health care management of young adults, adults, and older adults in diverse settings. Emphasizes health promotion, illness prevention, disease detection, and identification and management of health problems and concerns affecting young adults, adults, and older adults. Taken concurrently with NURS 7029.
Prereq.: NURS 6902, NURS 6903, NURS 6904, NURS 7026, NURS 7027.

NURS 7029  Adult and Older Adult Health Practicum  2 s.h.
Application of concepts, theories and research from NURS 7028 in a variety of health care settings. Taken concurrently with NURS 7028.
Prereq.: NURS 6902, NURS 6903, NURS 6904, NURS 7026 and NURS 7027.

NURS 7037  Adult Gerontology Acute Care  3 s.h.
Competencies (knowledge, skills, and professional behaviors) required to provide comprehensive and holistic care to a culturally diverse, acutely ill population (young adult-frail elderly) is emphasized. Clinical manifestations of and patient response to particular patient care problems (e.g. pulmonary, cardiovascular, etc.) with emphasis on physical assessment findings for determining a differential diagnosis and planning of patient care needs, health promotion and health maintenance.
Prereq.: NURS 6902, NURS 6903, NURS 6904.

NURS 7038  Adult Gerontology Acute Care 1 Practicum  3 s.h.
Supervised clinical practicum in an acute care facility. Emphasis is placed on the APRN-patient/family relationship collaborating with the health care team and health information technology.
Prereq.: NURS 7037, NURS 7039, NURS 7041.

NURS 7039  Adult Gerontology Acute Care  3 s.h.
Competencies (knowledge, advanced skills, and professional behaviors) required to provide comprehensive and holistic care to a culturally diverse, acutely ill adult population (young adult – frail elderly) is emphasized. Clinical manifestations of and patient response to particular patient care problems (e.g. integumentary, infectious disease) with emphasis on physical assessment findings for determining differential diagnosis and planning of patient care needs, health promotion and health maintenance.
Prereq.: NURS 6902, NURS 6903, NURS 6904.

NURS 7040  Adult Gerontology Acute Care 2 Practicum  3 s.h.
Practicum in an acute care facility aligned with NURS 7039. Emphasis is placed on quality improvement and patient safety initiatives, interdisciplinary professional collaboration and functioning within the health system.
Prereq.: NURS 7037, NURS 7039, NURS 7041.

NURS 7041  Adult Gerontology Acute Care  3 s.h.
Focus on the integration of the role components delivered by the adult-gerontology nurse practitioner. Clinical manifestations of and patient response to particular patient care problems (i.e., endocrine, gastrointestinal, multisystem, trauma) with emphasis on physical assessment findings for determining a differential diagnosis and planning of patient care needs, health promotion and health maintenance. Emphasis on utilizing diagnostic reasoning, therapeutic interventions, pharmacological therapeutics, interdisciplinary treatment plans, consultation, referral, transitional care and research findings in the management and evaluation of culturally diverse acutely ill adult-gerontology patients.
Prereq.: NURS 6902, NURS 6903, NURS 6904.

NURS 7042  Adult Gerontology Acute Care 3 Practicum  3 s.h.
Practicum designed to integrate the independent practice competencies. Emphasis is on preventing illness, promoting health and an optimal functional level. Stabilizing the ill client and minimizing complications through an interdisciplinary approach and transitional care.
Prereq.: NURS 7037, NURS 7039, NURS 7041.

NURS 7045  Family Nurse Practitioner 1  3 s.h.
Knowledge, skills, and professional behaviors required to provide comprehensive and holistic primary care to a culturally diverse population across the lifespan. Emphasis is on health promotion, health maintenance, and management of common health problems pertaining to children, adolescents, gynecological, reproductive, and family centered primary care with an emphasis on physical assessment findings for determining and planning of patient care needs.
Prereq.: NURS 6902, NURS 6903, NURS 6904.

NURS 7046  Family Nurse Practitioner 2  3 s.h.
Knowledge, advanced skills and professional behaviors required to provide comprehensive and holistic care to a culturally diverse population across the lifespan. Emphasis is on health promotion, illness prevention, disease detection, and identification and management of health problems. Focus is on clinical manifestations of and patient response to acute and chronic health problems (e.g. cardiovascular, pulmonary, endocrine, etc.) with emphasis on diagnosing and planning of patient care needs, health promotion and health maintenance.
Prereq.: NURS 6902, NURS 6903, NURS 6904.
NURS 7047 Family Nurse Practitioner 3 3 s.h.
Knowledge, advanced skills and professional behaviors required to provide comprehensive and holistic care to a culturally diverse population across the lifespan. Emphasis is on health promotion, illness prevention, disease detection, and identification and management of health problems. Focus is on chemical manifestations of and patient response to acute and chronic health problems (e.g. renal, gastrointestinal, integumentary, etc.) with emphasis on diagnosing and planning of patient care needs, health promotion and health maintenance.
Prereq.: NURS 6902, NURS 6903, NURS 6904.

NURS 7048 Family Nurse Practitioner 1 Practicum 3 s.h.
Supervised clinical practicum consisting of 180 hours in a variety of primary care settings. It is designed to provide the beginning Family Nurse Practitioner student with comprehensive experiences in health promotion and the identification and management of acute and chronic health problems in individuals across the lifespan. Crosslisted with: Family Nurse Practitioner.

NURS 7049 Family Nurse Practitioner 2 Practicum 3 s.h.
Supervised clinical practicum consisting of 180 hours in a variety of primary care settings. It is designed to provide the Family Nurse Practitioner student with comprehensive experiences in health promotion and the identification and management of acute and chronic health problems in individuals across the lifespan.
Prereq.: NURS 7045, NURS 7046, NURS 7047.

NURS 7050 Family Nurse Practitioner 3 Practicum 3 s.h.
Supervised clinical practicum consisting of 180 hours in a variety of primary care settings. It is designed to provide the advanced Family Nurse Practitioner student with comprehensive experiences in health promotion and the identification and management of acute and chronic health problems in individuals across the lifespan.
Prereq.: NURS 7045, NURS 7046, NURS 7047.

NURS 7051 Family Nurse Practitioner 4 Practicum 1 s.h.
The final supervised clinical practicum consisting of 120 hours in a variety of primary care settings. It is designed to provide the advanced Family Nurse Practitioner student with comprehensive experiences in health promotion and the integration and management of acute and chronic health problems in individuals across the lifespan.
Prereq.: NURS 7045, NURS 7046, NURS 7047, NURS 7048, NURS 7049, NURS 7050.

NURS 8900 Pharmacology for Nurse Anesthetists 1 3 s.h.
Provides an opportunity to focus on the advanced principles of anesthesia related to pharmacology. Presents in-depth material and includes discussions on the pharmacology of various classes of anesthetics and adjuvant therapies employed by nurse anesthetists, including anesthetic induction agents, benzodiazepines, opioid agonists/antagonists/agonist-antagonist, neuromuscular blocking agents, and local anesthetics.
Prereq.: Admission and enrollment in the DNP Nurse Anesthesia program.

NURS 8901 Anatomy, Physiology and Pathophysiology for Nurse Anesthetists 1 3 s.h.
An advanced study of the structure and function of the human body, with an emphasis on the neural, muscular and endocrine systems and pathophysiologic conditions involving those systems.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8902 Healthcare Biostatistics 3 s.h.
This course will cover principles of biostatistics in the context of public health applications. It will include the basic techniques for analyzing and investigating public health issues including disparities. Statistical package SPSS will be used.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8903 Professional Role of Nurse Anesthesia Practice 2 s.h.
This course is an introduction to the professional role development of the nurse anesthetist. It is designed to introduce the student to the basic aspects of the nurse anesthetist as an anesthesia provider. This course examines wellness and work life balance and identifies issues related to substance abuse within the profession. Students will be introduced to the nurse anesthesia code of ethics, scope of practice, and standards of practice as set forth by the American Association of Nurse Anesthetists (AANA).
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8904 Chemistry, Biochemistry, and Physics for Nurse Anesthetists 3 s.h.
This course enables nurse anesthesia students to identify principles of chemistry, biochemistry, and physics in relation to anesthesia drug administration. The chemical composition of, and physiologic response to common anesthesia drugs are examined. Students will learn to predict the physiologic response of drugs based on gas laws and the nature of fluids and vapors as they apply to anesthesia.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8905 Clinical Practicum 1 1 s.h.
This practicum introduces students to the clinical setting, beginning with orientation to each of the clinical sites. Nurse anesthesia students are introduced to the construction and execution of an anesthesia care plan. Students will experience supervised participation in actual administration of anesthesia. Integrates internalization of theoretical concepts and techniques and application in anesthetic management toward the achievement of the terminal objectives for competency in entry-level anesthesia practice. 120 clocked clinical hours. Graded S/U.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8906 Pharmacology for Nurse Anesthetists 2 3 s.h.
Provides an opportunity to focus on the advanced principles of anesthesia-related pharmacology. Focuses on anesthesia related uses and considerations with antihypertensives, alpha and beta adrenergic receptor agonist/antagonists, and anticoagulants. Presents in-depth material and discussions on the pharmacology of various drugs that contribute to pathological conditions such as malignant hyperthermia, asthma and congestive heart failure.
Prereq.: NURS 8900.

NURS 8907 Anatomy, Physiology and Pathophysiology for Nurse Anesthetists 2 3 s.h.
An advanced study of the structure and function of the human body, with an emphasis on the cardiovascular, respiratory, renal and hepatic systems as well as the pathological conditions involving those systems.
Prereq.: NURS 8901.

NURS 8908 Advanced Health Assessment 3 s.h.
This course explores advanced health assessment utilizing an extensive health history and physical exam. The course focuses on developing refined health history taking, psychological assessment, and physical assessment skills across the lifespan. Emphasis is placed on detailed health history assessment, differentiation, interpretation, and documentation of normal and abnormal assessment findings.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8909 Advanced Pathophysiology 3 s.h.
Normal physiologic functions and pathologic mechanisms are examined to prepare nurses for advanced practice roles.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.
NURS 8910 Introduction to Clinical Anesthesia 1 s.h.
This course is an introduction to the professional role development and clinical anesthesia practice of the nurse anesthetist. It is designed to introduce the student to the basic aspects of the nurse anesthetist as an anesthesia provider. This introduction also includes orientation to the basic physical facility, equipment, fundamental pharmacology, anesthetic techniques, historical perspectives, and specialties in the field of anesthesia. Students will be introduced to the nurse anesthesia code of ethics, scope of practice, and standards of practice as set forth by the American Association of Nurse Anesthetists (AANA).
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8911 Clinical Practicum 1 1 s.h.
Nurse anesthesia students construct and execute an anesthesia care plan with clinical faculty supervision and collaboration. Students experience slightly more independent participation in actual administration of anesthesia while still under direct supervision by clinical faculty. Determine theoretical concepts and techniques and application in anesthetic management toward the achievement of the terminal objectives for competency in entry-level anesthesia practice. Semester course; 150 plus clocked clinical hours. One day per week. Graded S/U.

NURS 8912 Principles and Practice of Nurse Anesthesia 3 s.h.
This course is designed to introduce the student to concepts necessary to construct and recommend a safe and individualized anesthetic while distinguishing various ethical and multicultural issues. Covers formulation of the anesthesia care plan, anesthetic techniques, prevention of complications, fluid management, monitoring and utilization of anesthesia equipment. Provides guided practical experience associated with course concepts, including practice with and evaluation of task-specific skills in both simulated and actual operating room environments.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8913 Principles of Anesthesia 1 3 s.h.
Introduces the nurse anesthesia student to concepts necessary to formulate, execute, and revise a safe, individualized anesthetics. Covers formulation of the anesthesia care plan, anesthetic techniques, prevention of complications, fluid management, monitoring and utilization of anesthesia equipment. Provides guided practical experience associated with course concepts, including practice with and evaluation of task-specific skills in both simulated and actual operating room environments. Includes advanced respiratory and cardiovascular systems and anesthetic considerations and/or implications.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8914 Clinical Practicum 3 3 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 300+ clocked clinical hours. 3 full days per week in the operating room setting. Graded S/U.
Prereq.: NURS 8911.

NURS 8915 Principles of Anesthesia 2 3 s.h.
Introduces the nurse anesthesia student to concepts necessary to formulate, execute, and revise a safe, individualized anesthetics. Covers formulation of the anesthesia care plan, anesthetic techniques, prevention of complications, fluid management, monitoring and utilization of anesthesia equipment. Provides guided practical experience associated with course concepts, including practice with and evaluation of task-specific skills in both simulated and actual operating room environments. Includes advanced assessment of the autonomic nervous system and obese patients, while connecting anesthetic implications for both.
Prereq.: NURS 8913.

NURS 8916 Health Care Policy 3 s.h.
The primary focus of this course is to explore the leadership role of nurses in health policy development and implementation as well as the role of research in health care policy formation and planning. Special emphasis is placed on selected national and international health policy issues that form the socio-political and economic context of nursing care and practice. Ethical dimensions of public policy formulations and implementation are highlighted.

NURS 8917 Evidence Based Practice 1 3 s.h.
This course focuses on critically analyzing and evaluating research evidence. Evidence-based practice concepts will be used. Methods of generating evidence through research are discussed.
Prereq.: NURS 8902 or equivalent statistics course.

NURS 8918 Clinical Practicum 4 3 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 300+ clocked clinical hours. Graded S/U.
Prereq.: NURS 8914.

NURS 8919 Principles of Anesthesia 3 3 s.h.
Nurse anesthesia students will successfully formulate, execute, and revise a safe, individualized anesthetics. They will recommend anesthetic techniques and determine methods to prevent anesthetic complications. Students will outline fluid administration, intraoperative monitoring and utilization of anesthesia equipment. Provides guided practical experience associated with course concepts, including practice with and evaluation of task-specific skills in both simulated and actual operating room environments. Illustrates advanced concepts of the neurological system, and fluid & blood administration.
Prereq.: NURS 8915.

NURS 8920 Ultrasound and Radiology 2 s.h.
Nurse anesthesia students investigate the practice of ultrasound-guided, regional anesthesia while supporting the core concepts of ultrasound machine operation, needle guidance, and sonoanatomy. An in-depth breakdown of the essential strategies used to identify radiological and sonographic landmarks for locating and identifying target nerves and key anatomy structures is presented.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8921 Evidence-Based Practice 2 3 s.h.
This course focuses on identifying and evaluating current literature in order to identify evidence-based clinical practice recommendations. Methods for translating evidence-based knowledge to inform nursing clinical practice will be used.
Prereq.: NURS 8917.

NURS 8922 Clinical Practicum 5 3 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 300+ clocked clinical hours. Graded S/U.
Prereq.: NURS 8918.
NURS 8923 Principles of Anesthesia 4 3 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 300+ clocked clinical hours. Graded S/U.
Prereq.: NURS 8919.

NURS 8924 Epidemiology 2 s.h.
Epidemiologic concepts of populations for understanding and using health research is the focus. Principles and methods of data analysis central to understanding health-related indicators for population health management will be used. Students will be prepared to function as members of a research team.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8925 Clinical Practicum 6 4 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 450 clocked clinical hours. Graded S/U.
Prereq.: NURS 8922.

NURS 8926 Principles of Anesthesia 5 3 s.h.
Nurse anesthesia students will successfully formulate, execute, and revise a safe, individualized anesthetics. They will recommend anesthetic techniques and determine methods to prevent anesthetic complications. Students will outline fluid administration, intraoperative monitoring and utilization of anesthesia equipment. Provides guided practical experience associated with course concepts, including practice with and evaluation of task-specific skills in both simulated and actual operating room environments. Illustrates advanced concepts of patients from across the lifespan.
Prereq.: NURS 8923.

NURS 8927 DNP Scholarly Project 1 3 s.h.
Focuses on identification of relevant clinical issues in anesthesia with attendant formulation of critically applicable questions and examination of the relevant research evidence that addresses those questions. Students implement and evaluate a terminal project and disseminate the results through an oral and/or poster presentation, manuscript submission to a peer-reviewed journal or another appropriate medium.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8928 Healthcare Finance and Practice Management 2 s.h.
This course explores the role and examines healthcare finance and economics from the perspective of the advanced practice nurse. Emphasis is given to analysis and synthesis of practice behaviors specific to the development of the advanced practice role. Financial management principles, the healthcare reimbursement system, reimbursement process, and factors influencing the financial environment are discussed.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8929 Clinical Practicum 7 4 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility and supervised autonomy for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 450 plus clocked clinical hours. Graded S/U.

NURS 8930 Ethics in Advanced Nursing Practice 2 s.h.
This course explores the philosophic basis and derived theories of ethics and their implications for advanced nursing practice. Using ethical principles, students will examine a variety of clinical, research and practice management dilemmas that arise in the provision of advanced practice nursing services to individuals, populations and communities. Cultural competence and transcultural nursing practices will also be explored.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8931 DNP Scholarly Project 2 3 s.h.
Focuses on identification of relevant clinical issues in anesthesia with attendant formulation of critically applicable questions and examination of the relevant research evidence that addresses those questions. Students implement and evaluate a terminal project and disseminate the results through an oral and/or poster presentation, manuscript submission to a peer-reviewed journal or another appropriate medium.
Prereq.: NURS 8927.

NURS 8932 Teaching, Curriculum and Evaluation Seminar 1 s.h.
This course examines the principles of teaching and learning applicable to the anesthesia didactic and clinical environment. Strategies are presented in teacher/learner communication, presentation development and strategies, curriculum designs and methods of evaluation pertinent to nurse anesthesia education.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8933 Clinical Practicum 8 4 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes increased responsibility and supervised autonomy for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum. Semester course; 450 plus clocked clinical hours. Graded S/U.

NURS 8934 Leadership and Collaboration for the DNP Nurse Anesthetist 2 s.h.
This course focuses on nursing leadership incorporating theory and research as it applies to the role of the Doctor of Nursing Practice in a variety of settings. The focus is developing advanced leadership and management skills, organizational effectiveness, power and influence skills, change management.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

NURS 8935 Clinical Practicum 9 4 s.h.
Provides intensive experience in all clinical anesthesia areas. Represents an integral phase of sequenced clinical progress toward the achievement of competency in entry-level anesthesia practice. Includes clinical rotations to various affiliate sites to gain experience in management of specialized anesthetic considerations. Emphasizes full responsibility for the delivery of a comprehensive anesthetic regime along the educational/experiential continuum with full supervision and guidance. Semester course; 450 plus clocked clinical hours. Graded S/U.

NURS 8936 Anesthesia Synthesis: Comprehensive Review 2 s.h.
This advanced course provides an opportunity for third-year doctoral anesthesia students to integrate the principle anesthesia concepts learned to date. Anesthesia Synthesis is not solely a traditional “board review”. Instead, it includes the cerebral application of the concepts studied in previous courses. Graded S/U.
Prereq.: Acceptance and Enrollment in the DNP Nurse Anesthesia Program.

Adult-Gerontology Acute Care Nurse Practitioner
MSN Program Director
Dr. Valerie O’Dell
3132 Cushwa Hall
Prepare to provide comprehensive and holistic care to a culturally diverse, acutely and chronically ill population with the knowledge and skills you will gain in the Master of Science in Nursing – Adult Gerontology Acute Care Nurse Practitioner online program from YSU.

In this online MSN AG-ACNP program, you will learn clinical manifestations of and patient response to particular patient care challenges (pulmonary, cardiovascular, etc.) with an emphasis on physical assessment findings for determining diagnoses and planning patient care needs as well as health promotion and maintenance.

This accredited nursing program includes a supervised clinical practicum consisting of 540 hours in an acute care setting. Our MSN core curriculum features an integrated capstone course, along with studies of pathophysiology, diagnostics and technologies, pharmacology, and more.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/nursing/msn/agacnp/).

Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and may only admit students from states in which we have approval. Online nursing program students must complete the program in the state of Ohio, Pennsylvania, West Virginia, Michigan, or Florida.

Graduates of this program will be qualified and eligible to take the American Nurses Credentialing Center certification examination. Following national certification, graduates are also qualified to be recognized as an Adult Gerontology - Acute Care Nurse Practitioner and are granted prescriptive authority through the State Board of Nursing.

Admission Requirements

Complete online application and pay $45 non-refundable application fee.

1. Hold a Bachelor’s of Science in Nursing (BSN) degree from an accredited program
2. Regular admission requires a cumulative undergraduate grade point average of at least 3.0 (on a 4.0 scale) and verification of work experience.
   • For AG-ACNP: A minimum of 1 year of critical care experience is required (this can include emergency room, ICU or intermediate acute care experience) prior to registering for the first specialty course (AG-ACNP NURS 7037, 7039, 7041).

   If GPA is 2.7 – 2.99 (on a 4.0 scale)
   • For AG-ACNP: A minimum of 2 years of critical care experience is required (this can include emergency room, ICU or intermediate acute care experience) prior to registering for the first specialty course (AG-ACNP NURS 7037, 7039, 7041).

Degree-seeking students having an undergraduate GPA below 2.7 are required to meet the 2,000 clinical hours or 2 years’ experience as written above AND must present a satisfactory score on the general test of the Graduate Record Exam or the Miller Analogies Test.

1. Official transcripts of all undergraduate academic work from each college or institution of higher learning attended (other than Youngstown State University (YSU))
2. Verification of a current, unencumbered RN license and expiration date in the state in which the student is licensed and practices, and will be completing practicum hours.

*Please use Supplemental Employment Verification form to verify clinical hours and experience.

For AG-ACNP Only: Current ACLS certification required prior to the start of practicums
• Current BLS certification, immunizations, drug screen and criminal background checks are maintained while in the program annually.Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and may only admit students from states in which we have approval.

Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and may only admit students from states in which we have approval. Online nursing program students must complete the program in the state of Ohio, Pennsylvania, West Virginia, Michigan, or Florida.

The areas of coursework in the MSN program include core courses, and one of the following options:

• Adult-Gerontology Acute Care Nurse Practitioner

The breakdown of these course requirements is as follows:

### Adult-Gerontology Acute Care Nurse Practitioner

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>NURS 6900</td>
<td>Healthcare Issues and Trends</td>
<td>3</td>
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<tr>
<td>NURS 6901</td>
<td>Theoretical Foundations in Science and Research</td>
<td>3</td>
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<tr>
<td>NURS 6902</td>
<td>Advanced Pathophysiology</td>
<td>3</td>
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<td>NURS 6903</td>
<td>Advanced Pharmacology</td>
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<td>NURS 6904</td>
<td>Advanced Health Assessment</td>
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<tr>
<td>NURS 6917</td>
<td>Differential Diagnosis</td>
<td>3</td>
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<td>NURS 6918</td>
<td>Advanced Diagnostics and Technologies</td>
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<td>NURS 7003</td>
<td>Role Development in Advanced Practice</td>
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<td>NURS 7005</td>
<td>Capstone Practicum</td>
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<td>NURS 7037</td>
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<td>NURS 7041</td>
<td>Adult Gerontology Acute Care 3</td>
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<tr>
<td>NURS 7042</td>
<td>Adult Gerontology Acute Care 3 Practicum</td>
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Total Semester Hours 45

### MSN Student Learning Outcomes

All graduates of the program are prepared to:

• Synthesize theory and research from nursing and related disciplines for advanced nursing roles.
• Utilize leadership strategies to influence health and health care and to promote the nursing profession in the advanced nursing role.
• Expand the knowledge of evidence-based practice by identifying nursing research problems and contributing to research investigations.
• Integrate assessment of own learning in developing a lifelong pattern of scholarly inquiry.

Upon successful completion of the MSN program, graduates are eligible to sit for national certification examinations. Once certified, graduates must apply for a Certificate of Authority to practice as an Advanced Practice Nurse in the State of Ohio or in the state in which they intend to practice.
Family Nurse Practitioner

Overview

MSN Program Director

Dr. Valerie O’Dell
3132 Cushwa Hall
(330) 941-2177
vmodell@ysu.edu

Emphasizing the delivery of primary care to families and individuals of all ages within the healthcare delivery system, the Master of Science in Nursing – Family Nurse Practitioner online program from YSU centers on professional nursing issues, nursing science, and research methods for building a successful, evidence-based practice.

In this online MSN FNP program, you will gain the knowledge, skills, and professional behaviors required to provide comprehensive and holistic primary care to a culturally diverse population. You will study health promotion, health maintenance, and management of common health problems pertaining to children, adolescents, women, adults and older adults, and family centered primary care with an emphasis on physical assessment, diagnosis, and management of patient care.

The program includes a supervised clinical practicum consisting of 600 hours in a variety of primary care settings. Our MSN core curriculum features an integrated capstone course, along with studies of pathophysiology, diagnostics and technologies, pharmacology and more.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/nursing/msn/family-nurse-practitioner/).

Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and may only admit students from states in which we have approval. Online nursing program students must complete the program in the state of Ohio, Pennsylvania, West Virginia, Michigan, or Florida.

Graduates of this program will be qualified and eligible to take the American Nurses Credentialing Center and/or the American Academy of Nurse Practitioners FNP certification examinations. Following national certification, graduates must apply for a Certificate of Authority to practice as an Advanced Practice Nurse in the state of Ohio, Pennsylvania, West Virginia, Michigan, or Florida.

The areas of coursework in the M.S.N. program include core courses, and one of the following options:

• Family Nurse Practitioner option (26 semester hours)

The breakdown of these course requirements is as follows:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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<tr>
<td>NURS 6900</td>
<td>Healthcare Issues and Trends</td>
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<tr>
<td>NURS 6901</td>
<td>Theoretical Foundations in Science and Research</td>
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<td>NURS 6917</td>
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<tr>
<td>NURS 6918</td>
<td>Advanced Diagnostics and Technologies</td>
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<td>NURS 7003</td>
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<td>NURS 7005</td>
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<td>FAMILY NURSE PRACTITIONER OPTION COURSES</td>
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<td>NURS 7051</td>
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Total Semester Hours: 46

MSN Student Learning Outcomes

All graduates of the program are prepared to:

• Synthesize theory and research from nursing and related disciplines for advanced nursing roles.
• Utilize leadership strategies to influence health and health care and to promote the nursing profession in the advanced nursing role.
• Expand the knowledge of evidence-based practice by identifying nursing research problems and contributing to research investigations.
• Integrate assessment of own learning in developing a lifelong pattern of scholarly inquiry.

Upon successful completion of the MSN program, graduates are eligible to sit for national certification examinations. Once certified, graduates must apply for a Certificate of Authority to practice as an Advanced Practice Nurse in the State of Ohio or in the state in which they intend to practice.

Graduates of the Family Nurse Practitioner option are prepared to:

• provide primary care to families and persons of all ages within the health care delivery system
• incorporate a variety of theories from nursing and related fields into the nurse practitioner role
• analyze social issues related to the health care delivery system and advanced nursing practice

Nurse Anesthetist

Admission to this option has been suspended.

The areas of coursework in the M.S.N. program include core courses, and one of the following options:
• Nurse Anesthetist option (34 semester hours)

The breakdown of these course requirements is as follows:

The total semester hours required for the nurse anesthetist option are greater than the usual hour requirements for other master’s programs at YSU. The increased number of hours is necessary in order to meet the COA requirements for a nurse anesthesia program.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>NURS 6900</td>
<td>Healthcare Issues and Trends</td>
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<td>NURS 6901</td>
<td>Theoretical Foundations in Science and Research</td>
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<td>NURS 6906</td>
<td>Advanced Statistics</td>
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<td>NURS 7002</td>
<td>Nursing Science and Research 2</td>
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<td>NURS 6909</td>
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<td>NURS 6910</td>
<td>Professional Aspects of Nurse Anesthesia</td>
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<td>Pharmacology 1 for Nurse Anesthetists</td>
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<td>NURS 6912</td>
<td>Pharmacology 2 for Nurse Anesthetists</td>
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<td>NURS 6913</td>
<td>Medical Chemistry and Physics for Nurse Anesthetists</td>
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<td>NURS 6914</td>
<td>Human Anatomy, Physiology, and Pathophysiology 1 for Nurse Anesthetists</td>
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<td>NURS 6916</td>
<td>Anesthesia Principles 2</td>
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<tr>
<td>NURS 7010</td>
<td>Human Anatomy, Physiology, and Pathophysiology 2 for Nurse Anesthetists</td>
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<td>NURS 7011</td>
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<td>NURS 7012</td>
<td>Anesthesia Principles 4</td>
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</table>

Total Semester Hours 52

Admission Requirements

All nursing applicants must meet the following requirements:

• Hold a B.S.N. degree from an accredited program
• Current Ohio Registered Nurse license and minimum of one year professional work experience
• Current CPR certification, current immunizations, drug screening, and criminal background checks are to be maintained while in the program.
• Graduates of the Nurse Anesthetist option are prepared to:
  • administer anesthesia in a variety of practice settings to patients needing anesthesia care.
  • utilize advanced practice nursing roles within the Health Care Delivery System.

Admission to this option has been suspended.

Admission to this option has been suspended.

Admission Requirements

All nursing applicants must meet the following requirements:

• Hold a Bachelor’s of Science in Nursing (BSN) degree from an accredited program

Application deadline for Family Nurse Practitioner (FNP) option is February 1. The FNP option is a cohort-based program (beginning each Fall).

Nurse Education

Admission Requirements

MSN Nurse Education option

1. Hold a Bachelor’s of Science in Nursing (BSN) degree from an accredited program
2. Regular admission requires a cumulative undergraduate grade point average of at least 3.0 (on a 4.0 scale) and verification of work experience.

Application deadline for Family Nurse Practitioner (FNP) option is February 1. The FNP option is a cohort-based program (beginning each Fall).
All graduates of the program are prepared to:

MSN Student Learning Outcomes

All graduates of the program are prepared to:

- Synthesize theory and research from nursing and related disciplines for advanced nursing roles.
- Utilize leadership strategies to influence health and health care and to promote the nursing profession in the advanced nursing role.
- Expand the knowledge of evidence-based practice by identifying nursing research problems and contributing to research investigations.
- Integrate assessment of own learning in developing a lifelong pattern of scholarly inquiry.

Upon successful completion of the MSN program, graduates are eligible to sit for national certification examinations. Once certified, graduates must apply for a Certificate of Authority to practice as an Advanced Practice Nurse in the State of Ohio or in the state in which they intend to practice.

Graduates of the Nurse Education option are prepared to:

- practice in advanced nurse educator roles within Academic, Health Care Delivery and Community settings.
- incorporate a variety of theories from nursing and related fields into nursing practice and education roles.
- analyze social issues related to Health Care Delivery Systems and nursing education.

School Nurse Licensure (non degree)

Overview

This non-degree School Nurse License Online Program is designed to build upon the baccalaureate nursing education and prepare the school nurse to be an effective member of the professional school community. This online program requires 15-17 semester credit hours with courses taught by both faculty in the YSU Centofanti School of Nursing and the Beeghly College of Education.

Included in the program are 300 practicum hours (5 s.h. 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.

After completion of the online courses, the student will be eligible for School Nurse Licensure through the Ohio Department of Education.

Admission Requirements

Students seeking admission into the School Nurse Online Licensure Program must have a bachelor of science degree in nursing (BSN) with course work 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). The Ohio RN license is necessary prior to practicum placement.

All nursing applicants must meet the following requirements:

- Cumulative grade-point average in undergraduate work of at least 2.7 on a 4.0 scale
- Hold a BSN degree from an accredited program
- Current Registered Nurse license and a minimum of one year professional work experience by date of application.
- Current CPR certification, current immunizations, drug screening and criminal background checks are to be maintained while in the program;

Students not meeting regular admission requirements may be provisionally admitted. See the Graduate Bulletin under Provisional Admission. Applicants must submit the following items to the College of Graduate Studies, https://catalog.ysu.edu/graduate/admission/

The areas of coursework in the M.S.N. program include core courses, and one of the following options:

- Nurse Education option (24 semester hours)

The breakdown of these course requirements is as follows:

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>NURS 6900</td>
<td>Healthcare Issues and Trends</td>
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<td>Advanced Pathophysiology</td>
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<td>NURS 6903</td>
<td>Advanced Pharmacology</td>
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<td>NURS 6904</td>
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<td>NURS 7018</td>
<td>Nursing Curriculum Design</td>
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<td>NURS 7019</td>
<td>Nursing Instructional Methods</td>
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<td>NURS 7020</td>
<td>Evaluation in Nursing Education</td>
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<td>NURS 7021</td>
<td>Nurse Educator Role</td>
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Total Semester Hours 33
School Nurse License (Non-Degree) Requirements

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<tr>
<td>SPED 6900</td>
<td>Issues, Trends &amp; Ethical, Legal and Professional Guidelines in Special Education</td>
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<td>NURS 6907</td>
<td>Health Assessment of School Children</td>
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<td>NURS 7014</td>
<td>Health Management in Schools</td>
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<td>NURS 7016</td>
<td>School Nurse Role</td>
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<td>NURS 7017</td>
<td>School Nurse Role Practicum</td>
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</table>

Total Semester Hours: 15-17

Learning Outcomes

- Work in the clinical practice specialty of school health using advanced practice roles.
- Incorporate a variety of theories from nursing and related fields into nursing practice and management roles.
- Analyze social issues related to the Health Care Delivery System and Advanced Nursing Practice.

Master of Social Work

Program Director
Dr. Sherri Harper Woods

3375 Cushwa Hall
(330) 941-3446
sdwoods02@ysu.edu

Program Description

WELCOME! The social work profession combines knowledge skill and compassion to address the common social challenges people encounter. The Master of Social Work program prepares graduates for advanced social work practice with a wide range of clients within a wide range of agency settings. The program’s focus is on work with individuals and families.

The organizing framework for the M.S.W. program at Youngstown State University is the strengths-based empowerment approach that emphasizes:

- helping individuals, families, and communities recognize and utilize their capacities;
- gain awareness of available options;
- understand the barriers and obstacles they may face;
- reinforce their hopes and aspirations; and
- integrate internal and external resources to improve the quality of their lives.

The purpose of the M.S.W. program is to develop competent, ethical, and effective professionals capable of utilizing advanced knowledge, skills, and values to promote social justice in the delivery of social services within a diverse society. The integration social work knowledge, values, and skills are achieved through both academic coursework and field placement experiences.

Graduates find employment the practice areas of mental health, medical social work, family services, schools, substance abuse treatment, developmental disabilities, child welfare, the courts among others. Graduates of the Master of Social Work program are eligible to apply for licensure as a Licensed Social Worker (LSW) and a Licensed Independent Social Worker (LISW). Licensure is required for the majority of positions in the human services employment sector.

Program Locations

A full-time two-year program and part-time three- and four-year programs are available on the Youngstown campus. An advanced standing program is also available on the main (Youngstown) campus for students that have completed a Bachelor of Social Work degree. Courses on the Youngstown campus are offered on Saturdays and weekday evenings. Students should also be available at additional times (18 hours per week) for field internship engagement that most frequently occurs during daytime, weekday hours.

One-, two-, three-, and four-year programs are available in partnership with Lorain County Community College in Elyria, Ohio and Lakeland County Community College in Kirtland, Ohio. Our Advanced Standing (39 hour) programs are also available for students who have completed a Bachelor of Social Work degree at the Lorain and Lakeland community college sites. Face-to-face courses at these locations are offered on Saturdays with other courses in online format. Students should be available at additional times (18 hours per week) for field internship engagement that most frequently occurs during daytime, weekday hours.

Accreditation

The Master of Social Work program is accredited by the Council on Social Work Education http://www.cswe.org/. Most recent accreditation was achieved in 2021. The program will be due for reaccreditation in 2028. Graduates of the MSW program are eligible for a license in social work (LISW) granted by the Ohio Counselor, Social Work, and Marriage and Family Therapist Board.

Admission Requirements

Applicants to the M.S.W. program are encouraged to review the admission criteria listed below, as they exceed the minimum standards established by the College of Graduate Studies. Meeting minimum criteria does not guarantee admission. Applicants are evaluated by the Social Work Department's Graduate Admissions Committee to ensure that qualifications are evaluated in a manner consistent with the M.S.W. program’s requirements.

Admission to the M.S.W. program is based on the following criteria that allow evaluation of the student’s potential to succeed in graduate-level social work education, as well as an assessment of their ability to engage in ethical and competent social work practice in a diverse society.

Regular Admission

In addition to the minimum College of Graduate Studies admissions requirements, all applicants must meet the following requirements for regular admission to the Master of Social Work program:

- an undergraduate degree, preferably in a social science, from an accredited college or university;
- a cumulative grade point average of 3.0 or above (on a 4.0 scale) in all undergraduate coursework;
- work or volunteer experience related to preparation for professional social work practice;
- three letters of recommendation completed on official forms. Recommendations should include one academic source, one professional source, and one additional source from either of the aforementioned;
- a professional statement reflecting how completion of the M.S.W. will impact upon the student’s professional goals and objectives; and if applicable, a description of the applicant’s previous social work/human service work experience
- an optional personal interview and/or additional information as requested by the program’s admission committee.
**Provisional Admission**

Applicants with a undergraduate cumulative grade point average of 2.7 to 2.99 (on a 4.0 scale) may be admitted provisionally. Provisional students must maintain a 3.0 GPA to continue in the program. Provisionally admitted students can be changed to regular when requirements for regular admission have been met.

**advanced standing Program ADMISSION (39 semester hours)**

Applicants who have a Bachelor's of Social Work degree from a Council on Social Work Education (C.S.W.E) program are automatically considered for advanced status. The advanced standing program permits students to complete all requirements of the M.S.W. degree in 39 semester hours. The regular program is completed in 60 semester hours. The Advanced Standing MSW program can be completed in as early as one year. However, students may choose to complete the required 39 semester hours within two, three, or four years.

Applicants seeking admission to the Advanced Standing Program must meet all admission requirements for the Master of Social Work Program in addition to the following:

- possess a Bachelor of Social Work degree from a C.S.W.E. accredited program within seven years prior to enrollment; individuals who completed their degree prior to seven years and have worked in the field of social work you may petition for an exception to the MSW Committee.
- have achieved a cumulative grade point average of at least a 3.0 (on a 4.0 scale) in all undergraduate coursework or;
- have at least a 2.7 overall GPA and achieved A's and B's in all junior and senior level social work courses.

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 enrollment in the MSW program and the limitations prior convictions may impose on their ability to practice the profession of social work.

**Graduate Faculty**

Mari L. Alschuler, Ph.D., Associate Professor
Reflective journaling; creative arts therapies; LGBTQI issues; student veterans; clinical supervision; group work; macro practice

Dana Davis, Ph.D., Associate Professor, Chair
Harm reduction; housing; teaching methodology

Ronald E. Davis, Ph.D., Assistant Professor

Meenakshi Venkataraman, Ph.D., Assistant Professor
Psychological, social, and spiritual aspects of adult mental illness; ancient Indian culture; gerontology; research in pedagogy; social work evaluation; international social work research

Sheri Harper Woods, D.M., Assistant Professor
Integrating spirituality into the therapeutic healing process; trauma-informed care; service learning and civic engagement

**Traditional Program**

Sixty semester hours of coursework are required for completion of the Master of Social Work degree. The program may be completed in two years, three years, or four years all beginning in the fall semester of each year. Foundation social work content is comprised of eight courses and two field practicums with an emphasis on the following areas:

- social work values and ethics,
- diversity,
- populations at risk,
- social and economic justice,
- human behavior in the social environment,
- social welfare policy and services,
- social work practice,
- research, and
- business skills for social workers.

The foundation field practicum is designed to provide the student with learning experiences that promote and integrate the achievement of foundation objectives. The foundation field practicum is taken in two consecutive semesters for a total of six credit hours (480 clock hours). All social work courses are 3 semester hours.

Advanced content areas consist of eight courses and two advanced field practicum with an emphasis on knowledge, skills, and values for advanced direct social work practice with individuals and families. The advanced field practicum is designed to provide learning experiences that promote and integrate the achievement of advanced program objectives. The advanced practicum is taken in two consecutive semesters for a total of six credit hours (540 clock hours).

**PROGRESSION OPTIONS:**

**MAIN CAMPUS:** The 60 semester hour program can be completed in 2, 3 or 4 years (no summer courses). Courses are offered Saturdays and weekday evenings. Students engage in field internships throughout the 2 year option, in the second and third years of the 3 year option, and the third and fourth year of the 4 year option. Field internships occur in the fall two years of the program. Field internships occur on a rotating basis.

**LAKE AND LORAIN CAMPUSES:** The 60 hour program is completed in 2, 3 or 4 years (no summer courses). Students enroll in two or three course per semester. Courses are offered on Saturdays and online. Field internships occur in the fall two years of the program. Field internships occur on a rotating basis.

**Course Outline: Traditional Program**

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<td>SCWK 6901</td>
<td>Oppression and Cultural Competence</td>
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<td>SCWK 6902</td>
<td>Social Welfare Policy and Program Analysis</td>
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<td>SCWK 6903</td>
<td>Social Work Foundation Practice 1</td>
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<td>SCWK 6904</td>
<td>Field Education 1</td>
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<td>SCWK 6905</td>
<td>Human Behavior and the Social Environment 2</td>
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<td>SCWK 6906</td>
<td>Business Skills for Social Workers</td>
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<td>SCWK 6907</td>
<td>Social Work Foundation Practice 2</td>
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<td>SCWK 7002</td>
<td>Trauma Informed Practices in Social Work</td>
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<td>SCWK 7004</td>
<td>Practice Evaluation</td>
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<td>SCWK 7008</td>
<td>Social Work and the DSM</td>
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<td>SCWK 7003</td>
<td>Theory and Practice of Supervision</td>
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<tr>
<td>SCWK 7010</td>
<td>Advanced Direct Practice 2</td>
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Advanced Standing Program (39 hours)

PROGRAM PROGRESSION: (Main, Lakeland and Lorain campuses)

Applicants who have a Bachelor’s of Social Work degree from a Council on Social Work Education (C.S.W.E) program are automatically considered for advanced standing status. The advanced standing program permits students to complete all requirements of the M.S.W. degree in 39 semester hours. The regular program is completed in 60 semester hours. The Advanced Standing MSW program can be completed in as early as one year. However, students may choose to complete the required 39 semester hours within two, three, or four years.

Applicants seeking admission to the Advanced Standing Program must meet all admission requirements for the Master of Social Work Program in addition to the following:

- possess a Bachelor of Social Work degree from a C.S.W.E. accredited program within six years prior to enrollment;
- have achieved a cumulative grade point average of at least a 3.0 (on a 4.0 scale) in all undergraduate coursework or;
- have at least a 2.7 overall GPA and achieved A’s and B’s in all junior and senior level social work courses.

Course Outline: Advanced Standing Program (39 hours)

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<tr>
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<td>SCWK 6906</td>
<td>Business Skills for Social Workers</td>
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<td>SCWK 6910</td>
<td>Integrated Foundation (Graduate Elective)</td>
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<td>SCWK 7000</td>
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<td>SCWK 7002</td>
<td>Trauma Informed Practices in Social Work</td>
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</table>

Total Semester Hours 39

Learning Outcomes

The Master of Social Work Program at Youngstown State University is accredited by the Council for Social Work Education (CSWE) the leading accrediting body of social work education. As a result, our Learning Outcomes are dictated by the CSWE and continue to reflect the most up-to-date standards for social work education. These Learning Outcomes focus on the mastery of ten core competencies set by CSWE and reflect specific knowledge, values, skills, and resulting practice behaviors which guide assessment of student achievement.

Coursework contained in the MSW curriculum contributes to student achievement of these competencies. Foundation practice behaviors and advanced practice behaviors serve to provide a means to evaluate the extent to which these competencies have been met by students at the foundation and advanced practice levels of graduate social work education. These competencies are evaluated through the classroom and student engagement in social work field internships.

Learning Outcomes (Competencies):

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

Graduate Courses

SCWK 6900 Human Behavior and the Social Environment 1 3 s.h.
An overview of normal individual development throughout the life span. Developmental stages, tasks, and circumstances as well as diversity in individual development will be examined. The influence of biological, psychological, and social systems on individual development throughout the life span constitutes the organizing theme for the course.

SCWK 6901 Oppression and Cultural Competence 3 s.h.
Examination of the history, demographic trends, and cultures of diverse groups who have been disenfranchised based on differences that include race, gender, age, socioeconomic class, sexual orientation, religion, and ability. Emphasis will be placed on understanding the experience of oppression among diverse groups and the implications for social work practice.

SCWK 6902 Social Welfare Policy and Program Analysis 3 s.h.
An historical perspective on the development of social problems as well as a critical analysis of social welfare institutions, programs, policy efforts, and services. Attention is given to the consequences of social and economic injustice and the effects that policy initiatives have upon vulnerable populations.

SCWK 6903 Social Work Foundation Practice 1 3 s.h.
A foundation methods course based on an advanced generalist social work practice perspective. This course demonstrates application of the problem-solving process or the planned change process in the context of the strengths perspective. Attention will be placed on planning interventions with diverse individuals, families, and small groups.

SCWK 6904 Field Education 1 3 s.h.
Professionally supervised practice in approved community agencies. Focus will be on increasing the student’s analytic skills and repertoire of intervention modalities. The course is based on foundation coursework that emphasizes advanced generalist practice while promoting strengths-based approach.

SCWK 6905 Human Behavior and the Social Environment 2 3 s.h.
An overview of theories and knowledge of the behavior of groups, organizations, and communities as well as the impact of these systems on individual behavior. Special emphasis is given to understanding the influence of mesosystems and macrosystems on social service organizations. Empowerment-based policies are explored.

SCWK 6906 Business Skills for Social Workers 3 s.h.
Overview of the principles, concepts, and terminology related to social work business practice. Topics include time management, financially responsible practice, managed care issues, organizational efficiency and effectiveness, outcome measurements, performance evaluation, marketing for nonprofit organizations, community building and collaborative efforts. State-of-the-art technology will be reviewed.

SCWK 6900 Human Behavior and the Social Environment 1 3 s.h.
An overview of normal individual development throughout the life span. Developmental stages, tasks, and circumstances as well as diversity in individual development will be examined. The influence of biological, psychological, and social systems on individual development throughout the life span constitutes the organizing theme for the course.

SCWK 6901 Oppression and Cultural Competence 3 s.h.
Examination of the history, demographic trends, and cultures of diverse groups who have been disenfranchised based on differences that include race, gender, age, socioeconomic class, sexual orientation, religion, and ability. Emphasis will be placed on understanding the experience of oppression among diverse groups and the implications for social work practice.

SCWK 6902 Social Welfare Policy and Program Analysis 3 s.h.
An historical perspective on the development of social problems as well as a critical analysis of social welfare institutions, programs, policy efforts, and services. Attention is given to the consequences of social and economic injustice and the effects that policy initiatives have upon vulnerable populations.

SCWK 6903 Social Work Foundation Practice 1 3 s.h.
A foundation methods course based on an advanced generalist social work practice perspective. This course demonstrates application of the problem-solving process or the planned change process in the context of the strengths perspective. Attention will be placed on planning interventions with diverse individuals, families, and small groups.

SCWK 6904 Field Education 1 3 s.h.
Professionally supervised practice in approved community agencies. Focus will be on increasing the student’s analytic skills and repertoire of intervention modalities. The course is based on foundation coursework that emphasizes advanced generalist practice while promoting strengths-based approach.

SCWK 6905 Human Behavior and the Social Environment 2 3 s.h.
An overview of theories and knowledge of the behavior of groups, organizations, and communities as well as the impact of these systems on individual behavior. Special emphasis is given to understanding the influence of mesosystems and macrosystems on social service organizations. Empowerment-based policies are explored.

SCWK 6906 Business Skills for Social Workers 3 s.h.
Overview of the principles, concepts, and terminology related to social work business practice. Topics include time management, financially responsible practice, managed care issues, organizational efficiency and effectiveness, outcome measurements, performance evaluation, marketing for nonprofit organizations, community building and collaborative efforts. State-of-the-art technology will be reviewed.
SCWK 6907 Social Work Foundation Practice 2 3 s.h.
A foundation methods course based on an advanced generalist social work practice perspective. This course demonstrates application of the problemsolving process or planned change process in the context of the strengths perspective. Attention will be placed on planning interventions with diverse organizations and communities.
Prereq.: SCWK 6903.

SCWK 6908 Research 3 s.h.
A review of the scientific method, quantitative and qualitative research strategies, and related concepts. Principles of conceptualization, research design, sampling, instrumentation, descriptive and inferential data analysis, scientific report writing, and the significance of research for social work practice will be emphasized. Attention will be placed on developing strengths-based performance indicators.
Prereq.: SCWK 6900.

SCWK 6909 Field Education 2 3 s.h.
Professionally supervised practice in approved community agencies. Focus will be on increasing both the student's analytic skills and repertoire of intervention modalities. The course is based on foundation coursework that emphasizes advanced generalist practice while promoting a strengths-based approach.
Concurrent: SCWK 6907.

SCWK 6910 Integrated Foundation 3 s.h.
An advanced course that emphasizes social work values, ethical dilemmas/implications, and the development of practice methods that integrate a strengths-based empowerment approach with individuals, families, and groups.
Prereq.: SCWK 6907.

SCWK 7000 Advanced Direct Practice 1 3 s.h.
The development of adversities experienced by individuals from conception through adulthood. The course employs a multisystems ecological perspective in discussing risk conditions, stressful life events, and the interplay of risk and protective factors that appear to be common to many childhood disorders and problems.
Prereq.: SCWK 6901.

SCWK 7002 Trauma Informed Practices in Social Work 3 s.h.
Students will learn about trauma in a way that is relevant to clinical work through a bio-psycho-social-spiritual lens. The course will assist students in developing beginning trauma competency in clinical social work practice by introducing students to the core concepts (general theory and foundational knowledge), informing evidence-based assessment and treatment for trauma-informed care. Strength-based and empowerment practices will be highlighted along with a focus on the identification of protective and promotive factors that foster resiliency and post-traumatic growth.
Prereq.: SCWK 7008 or concurrent.

SCWK 7003 Theory and Practice of Supervision 3 s.h.
Explores advanced techniques for evaluating systems of all sizes. Methods and strategies for conducting program evaluation and single system research will be emphasized. Special emphasis will be placed on developing strengths-based performance indicators.
Prereq.: SCWK 6908.

SCWK 7004 Practice Evaluation 3 s.h.
This course examines social work with the elderly through critical analysis of policy, specific human behavior content, and research. Students will critique practice interventions, program design, and service strategies specific to social work practice in settings for the aged.

SCWK 7005 Social Work in Aging 3 s.h.
This course examines social work in child and family settings through critical analysis of policy, specific human behavior content, and research. Students will critique practice interventions, program design, and service strategies specific to social work practice in child and family settings.

SCWK 7007 Social Work in Child and Family Settings 3 s.h.
This course examines social work in mental health settings through critical analysis of policy, specific human behavior content, and research. Students will critique practice interventions, program design, and service strategies specific to social work practice in mental health settings.

SCWK 7008 Social Work and the DSM 3 s.h.
This course examines social work in mental health and chemical dependency with an emphasis on the DSM and ICD. Application of assessment is through a bio-psycho-social-spiritual perspective with a focus on current practices.

SCWK 7009 Field Education 3 3 s.h.
A continuation of SCWK 7000 Advanced Direct Practice I. In addition to developing practice methods that integrate a strengths-based empowerment approach with individuals, this course incorporates theoretical frameworks and constructs from empowerment theory, the ecological perspective, solution-focused practice, the feminist perspective, person-centered practice, and other relevant, brief practice approaches.
Prereq.: SCWK 7000.

SCWK 7010 Advanced Direct Practice 2 3 s.h.
Advanced field education placement. Students participate in planned experiences that integrate theoretical knowledge, social work practice skills, and social work ethics and values in direct or macro practice settings. Theoretical frameworks address micro and macro concerns respectively by emphasizing empowerment, individual strengths, solution-focused practice, community building, collaboration and organizational structures.
Concurrent: SCWK 7010.

SCWK 7012 Field Education 4 3 s.h.
This course provides opportunities for students to synthesize and integrate previous coursework from their social work education. Theoretical and experiential assignments are utilized to assist students with increased self-awareness and to prepare them for the transition from college to advanced professional social work practice that emphasizes the strengths-based approach.
Concurrent: SCWK 7012.

SCWK 7013 Capstone 3 s.h.
Advanced seminar on selected topics in social work theory, methods, and research. May be repeated with different topics.

SCWK 7014 Selected Topics in Social Work 3 s.h.

SCWK 7020 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-.

SCWK 7021 MSW Independent Study 1-6 s.h.
This course involves study under the personal supervision of a faculty member with the approval of the MSW 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 educational competencies. 1-.
Prereq.: MSW Student.

Certificate in Aging Studies

Department of Health Professions
Daniel J. Van Dussen, Ph.D.
440 DeBartolo Hall
(330) 941-1683
djvandussen@ysu.edu

Certificate Description
The curriculum is designed from an interdisciplinary perspective of gerontology with a focus on epidemiology and health. This program will provide students with advanced education in issues facing older adults, their families and provide an in depth knowledge of the policies which impact aging
and our population. The program consists of 18 semester hours, which may be completed in two semesters of full-time coursework or part time.

**Admission Requirements**

Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>SOC 6905</td>
<td>Social Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GERO 6915</td>
<td>Service Delivery Aging Policy</td>
<td>3</td>
</tr>
<tr>
<td>GERO 6906</td>
<td>Perspectives in Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GERO 6960</td>
<td>Epidemiology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GERO 6998</td>
<td>Anatomy and Physiology of Aging</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours** 18

Notes:

Students will be required to take one elective (3 semester hours). We will schedule at least one selected topics elective class per academic year. This gives students the opportunity to plan when they want to take this course based upon their professional goals.

**Proposed Sequencing of Courses for Full-Time Students:**

**Year 1**

**Fall**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>GERO 6960</td>
<td>Epidemiology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GERO 6906</td>
<td>Perspectives in Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GERO 6915</td>
<td>Service Delivery Aging Policy</td>
<td>3</td>
</tr>
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</table>

**Semester Hours** 9

**Spring**

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<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>GERO 6998</td>
<td>Anatomy and Physiology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>GERO 7094</td>
<td>Selected Topics</td>
<td>3</td>
</tr>
<tr>
<td>SOC 6905</td>
<td>Social Gerontology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Hours** 9

**Total Semester Hours** 18

**Learning Outcomes:**

Students will demonstrate the ability to translate traditional historical scholarship into media meant primarily for non-academic audiences.

**Certificate in Biological Sciences**

**Department of Chemical and Biological Sciences**

Dr. Michael Butcher, Graduate Program Director
4013 Ward Beecher Science Hall
(330) 941-2195
mtbutcher@ysu.edu

**Certificate Description**

The Graduate Certificate in Biological Sciences provides CCP high school teachers who teach General Biology courses for college credit the required 18 credit hours of graduate-level Biology content courses.

**Admission Requirements**

- A previously obtained undergraduate degree from an accredited college or university, with a minimum cumulative grade point average of 2.7.
- Must be a licensed science teacher.
- Have an undergraduate degree that included a minimum total of 20 credit hours in Biology, Chemistry, and/or Physics.
- Submission of two (2) letters of recommendation.

**Certificate Requirements**

The Certificate requires the completion of at least 18 credit hours of Biology graduate courses. At least 9 credit hours of this coursework must be at the 6900 level. All courses must be graded and all course grades must be at the A or B level.

Students should consult with the departmental Graduate Director to decide which Biology courses best meet his/her educational goals and to devise a curricular plan for completion of the Certificate program.
Certificate in Data Analytics
Department of Mathematics and Statistics

Dr. Thomas Wakefield
618 Lincoln Building
(330) 941-1395
tpwakefield@ysu.edu

Certificate Description
This certificate is an interdisciplinary collaboration between the Colleges of Business, BCLASSE, and STEM. It gives students the opportunity to learn and apply skills necessary to analyze large data sets and use predictive analytics to gain insight into data. Interest in data analytics is growing and this certificate allows YSU to offer an option to students looking to gain knowledge and experience in this in-demand field.

Admission Requirements
Undergraduate degree with overall GPA of 2.7 or higher.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATX 5801</td>
<td>Data Management</td>
<td>3</td>
</tr>
<tr>
<td>DATX 5803</td>
<td>Data Visualization</td>
<td>3</td>
</tr>
<tr>
<td>DATX 5805</td>
<td>Predictive Modeling Algorithms</td>
<td>3</td>
</tr>
</tbody>
</table>

Learning Objectives
Students who successfully complete this certificate 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.

Certificate in Economics
Lariccia School of Accounting and Finance

Dr. Ebenge Usip, Graduate Program Director
303 DeBartolo Hall
(330) 941-1682
eeusip@ysu.edu

Certificate Description
This is a six-course certificate (18 semester hours) designed for high school teachers who wish to participate in the College Credit Plus program and teach principles of economics.

Admission Requirements
Prior to starting the program students must have taken one of the following courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1552</td>
<td>Applied Mathematics for Management</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1570</td>
<td>Applied Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Certificate in English
Department of Languages

Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
330-941-3420
lhardy01@ysu.edu

Certificate Description
This is a six-course certificate (18 semester hours) specifically targeted at teachers in the College in High School program. It responds directly to the state’s demand for training College in High School teachers and to YSU’s recent scholarship program for such teachers.

Admission Requirements
Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6906</td>
<td>Teaching of Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6907</td>
<td>Teaching of Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6922</td>
<td>Twentieth-Century American</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6915</td>
<td>Early American Studies</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 6917</td>
<td>Nineteenth-Century American Studies</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>ENGL 6911</td>
<td>The Medieval World</td>
<td></td>
</tr>
<tr>
<td>ENGL 6912</td>
<td>Sixteenth- and 17th-Century British Studies</td>
<td></td>
</tr>
<tr>
<td>ENGL 6913</td>
<td>Shakespeare and Renaissance Drama</td>
<td></td>
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<tr>
<td>ENGL 6914</td>
<td>Restoration and 18th-Century British Studies</td>
<td></td>
</tr>
<tr>
<td>ENGL 6915</td>
<td>Early American Studies</td>
<td></td>
</tr>
<tr>
<td>ENGL 6916</td>
<td>Nineteenth-Century British Studies</td>
<td></td>
</tr>
<tr>
<td>ENGL 6917</td>
<td>Nineteenth-Century American Studies</td>
<td></td>
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<tr>
<td>ENGL 6918</td>
<td>Studies in Young Adult Literature</td>
<td></td>
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<tr>
<td>ENGL 6921</td>
<td>Twentieth-Century British Studies</td>
<td></td>
</tr>
<tr>
<td>ENGL 6922</td>
<td>Working Class Literature</td>
<td></td>
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<tr>
<td>ENGL 6935</td>
<td>Studies in Romanticism</td>
<td></td>
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<tr>
<td>ENGL 6963</td>
<td>Perspectives in Multicultural Studies</td>
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<tr>
<td>ENGL 6968</td>
<td>Studies in Literary Form</td>
<td></td>
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<tr>
<td>ENGL 6975</td>
<td>English Education Seminar</td>
<td></td>
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<tr>
<td>ENGL 6976</td>
<td>Studies in English Education</td>
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</tr>
</tbody>
</table>

Total Semester Hours 18

CERTIFICATE REQUIREMENTS

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ECON 6912</td>
<td>Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6922</td>
<td>Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6939</td>
<td>The Economics of Financial Markets and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>ECON 6945</td>
<td>Public Finance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Two 3-hour courses at the 6900 or 5800 level (the 5800-level classes must be taken as a graduate student)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Semester Hours 18

Students must pass ECON 6912, Microeconomic Theory, and ECON 6922, Macroeconomic Theory, with a grade of "B" or better prior to teaching ECON 2610, Principles 1: Microeconomics, or ECON 2630, Principles 2: Macroeconomics.
Certificate in Enterprise Resource Planning

Dr. Mohan Eunni
3379 Williamson Hall
(330) 941-7180
rveunni@ysu.edu
rrkasuganti@ysu.edu

Department of Management and Marketing

Certificate Description
This four-course certificate (8 semester hours) is designed to meet the needs of current M.B.A. students and M.B.A. graduates interested in enhancing their effectiveness in organizations using Enterprise Resource Planning software, which is increasingly prevalent in today’s business organizations. Students will have intensive hands-on experience with SAP-ERP software. The program covers topics such as ERP software evaluation and selection, materials management, configuration, and supply chain management. The overall goal of this certificate is to enable students (both current and future managers) in all areas of a business organization to be effective users of integrated ERP software and to be effective participants in managing the evaluation, installation, and use of ERP software.

Admission Requirements
Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>MGT 6944</td>
<td>Managing Business Processes</td>
<td>3</td>
</tr>
<tr>
<td>MGT 6945</td>
<td>Business Process Integration</td>
<td>3</td>
</tr>
<tr>
<td>MGT 6946</td>
<td>Supply Chain Management</td>
<td>3</td>
</tr>
<tr>
<td>MGT 6947</td>
<td>Managing Information &amp; Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Non-business graduate students and area professionals with non-business degrees must complete 5 s.h. of M.B.A. courses (MGT 6930, MKTG 6943, and ACCT/FIN 6902) in addition to the 8 s.h. required for the certificate (total of 13 s.h.).

Total Semester Hours 12

Certificate in Environmental Studies

Department of Physics, Astronomy, Geology and Environmental Sciences

Dr. Jeffrey Dick
2119 Moser Hall
330-941-1756
jcdick@ysu.edu (fparmstrong@ysu.edu)

Certificate Description
This sequence of 15 semester hours is designed to meet the needs of students and working professionals preparing for leadership roles in environmental science or management. The graduate certificate is focused in two tracks, with specialization in risk management and industrial/institutional management. This program is especially useful for careers with:

- regulatory agencies,
- industries seeking compliance with environmental regulations or focusing on environmental management systems,
- research facilities, and
- consulting firms providing state-of-the-art assessment, management, and remediation.

The program will also prepare the student to continue graduate studies leading to higher degrees.

Admission Requirements
Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU.

Undergraduate courses will not qualify for the certificate, but the following may be suggested for preparation for courses above:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>CHEM 3764</td>
<td>Chemical Toxicology</td>
<td>3</td>
</tr>
</tbody>
</table>

Certificate Requirements
To receive a certificate in environmental studies, all students must complete 15 semester hours of credit from coursework listed below. A grade point average of 3.0 or above must be achieved for all 15 semester hours of credit.

Risk Management Track

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</thead>
<tbody>
<tr>
<td>ENST 6900</td>
<td>Advanced Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENST 6901</td>
<td>Sources of Contamination</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- AHLT 5807 Epidemiology
- BIOL 5806 Field Ecology
- BIOL 6996 Topics in Ecology
- CHEM 6941 Advanced Organic Chemistry 1
- ENST 5830 Toxicology and Risk Assessment

Total Semester Hours 15

Industrial/Institutional Management Track

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 6900</td>
<td>Advanced Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENST 6901</td>
<td>Sources of Contamination</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- ENGR 6925 Applied Environmental Management
- ENST 5800 Environmental Impact Assessment
- ENST 5830 Toxicology and Risk Assessment
- ENST 6910 Environmental Management Systems Standards (ISO 14001)
- ENST 6930 Risk Management

Total Semester Hours 15
Certificate in Health Care Management
Department of Graduate Studies in Health and Rehabilitation Sciences
Dr. Ronald Chordas (interim program director)
(330) 941-3113
rkchordas@ysu.edu

Certificate Description
The health care management graduate certificate is a collaborative program between The Bitonte College of Health and Human Services and the Warren P. Williamson, Jr. College of Business Administration. The sequence of 18 semester hours is designed to meet the needs of students and working professionals preparing for leadership roles in health care management. The certificate consists of six semester hours of business tool courses and twelve semester hours of health care management courses.

Learning Outcomes:
The student will demonstrate skills to access and integrate important facts, concepts, principles, and theories in the field of management when developing solutions to problems.

Admission requirements
In addition to the minimum College of Graduate Studies admission requirements, applicants must complete the following undergraduate courses or their equivalent:

<table>
<thead>
<tr>
<th>COURSE</th>
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<th>S.H.</th>
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<tbody>
<tr>
<td>Research Methodology</td>
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<tr>
<td>Statistics</td>
<td></td>
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<tr>
<td>ACCT 2602</td>
<td></td>
<td></td>
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<tr>
<td>AHLT 4810</td>
<td></td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>MGT 3725</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Students should complete any undergraduate deficiency coursework before completion of the third semester of graduate work and must complete it prior to enrolling in related graduate-level courses. Also, students must submit three letters of reference:
- one from a faculty member,
- one from an employer, and
- one from another source, or
- two from faculty members and one from another source.

Regular admission requires a cumulative undergraduate grade point average of at least 3.0 (on a 4.0 scale).

Certificate Requirements
COURSE   TITLE                                      S.H.
Research Methodology                             
Statistics                                       
ACCT 2602 Financial Accounting                   3
AHLT 4810 Management Skills for Health Professionals 3
OR
MGT 3725 Fundamentals of Management              3

Must complete at least 6 hours from the following:
- CJFS 6942 Research and Statistics in Health and Human Services
- And one of the two MGT groups below:
  - FIN 6923 Corporate Financial Management
  - FIN 6902 Financial Accounting and Finance for Decision Making
- Both 6923 & 6902 Together

Certificate in Health Informatics
Overview
The Health Informatics track was designed for students in the Computer Science Information Systems (CSIS) interested in working in Health Care to earn a certificate which will help them gain employment in this field which has undergone significant advancement in recent years in the area of Health Information Systems. MHHS students will also have an opportunity to receive additional training in Computer Science Information Systems leading to a Health Informatics Certificate in addition to their MHHS Degree.

Admission Requirements
Certificate Requirements
Complete 3 semesters of the following:
- HHS 6949 Community Health Practice
- HHS 6953 Health Behavior
- HHS 6958 Health Services Issues
- HHS 6962 Health Care Reform

Complete 9 semester hours of the following:
- HHS 6930 Health Informatics
- or
  - CSCI 6920 Theory and Practice of Information Systems
  - HHS 6935 Clinical Informatics
  - HHS 6945 Health Care System Analysis
- or
  - CSCI 6951 Data Warehousing and Data Mining
  - HHS 6955 Health Care Quality in the Electronic Health Record

Complete 6 semester hours of the following:
- HHS 6900 Special Topics
- HHS 6922 Planning and Fiscal Management
- HHS 6918 Program Planning and Evaluation
- CSCI 6901 Principles of Computer Programming
- or
  - CSCI 6971 Cloud Computing and Big Data

Learning Objectives
1. To prepare future health informatics leaders who understand the complex interplay among the health informatics stakeholder communities,
2. To enhance the ability to use the inter-relationships among health information technology, the healthcare delivery and regulatory processes, and information management,
3. To grow a set of leadership behaviors that emphasizes professional competence, moral and ethical performance,
4. To demonstrate professional and technical competence in health informatics,
5. To instill a dedication to the use of technology for the benefit of humanity,
6. To create a sensitivity to the impact that the use of technology has on the person, and
7. To build a desire for life-long professional learning and development in health informatics.

Certificate in Homeland Security
Program Director
Dr. Christopher M. Bellas
1420 Cushwa Hall
(330) 941-2167
cmbellas@ysu.edu

Overview
The Graduate Certificate in Homeland Security provides Criminal Justice graduate students at YSU the opportunity to gain a more in-depth understanding of how to prepare and respond to disasters at the local, regional, national or international level. Students will also gain knowledge concerning the politics, policies and theoretical basis regarding Homeland Security issues.

Admission Requirements
Students must formally be admitted to the College of Graduate Studies at YSU, and in the Master of Science in Criminal Justice program (face to face or online) before the student can begin the coursework necessary to complete the Homeland Security Certificate.

Certificate Requirements
Students desiring to pursue the Certificate in Homeland Security must complete 12 hours from the following.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<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>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>CRJS 5892</td>
<td>Comparative and International Criminal Justice Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 6957</td>
<td>Readings in Criminal Justice</td>
<td>1-4</td>
</tr>
<tr>
<td>CRJS 6960</td>
<td>Program Planning and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 6985</td>
<td>Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRJS 6990</td>
<td>Criminal Justice Public Policy Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

The Certificate in Homeland Security requires 12 semester hours from above.

Students are highly encouraged to also take PHLT 5810 Agents of Mass Casualty and PHLT 5812 Crisis Management in Public Health.

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. Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU. Not more than 9 semester hours in the thesis option or 12 semester hours in the non-thesis option of a student's total course work for the M.S. degree may be taken from course offerings below the 6900 level.

Learning Objectives
1. Evaluation: Students will demonstrate knowledge on how to evaluate programs, policies, theories, and research related to the issues involving Homeland Security.
2. Administration: Students will demonstrate knowledge on how to use key CJ concepts to administrate programs that deal with Homeland Security both domestic and international.
3. Research: Students will demonstrate knowledge on how to perform their own research related to investigating, preparing and responding to Homeland Security situations.

Certificate in Instructional Communication
Department of Communication
Dr. Shelley Blundell
2029 Bliss Hall
330-941-1839
sblundell@ysu.edu

Certificate Description
This 18-semester hour, six-course certificate is designed for people who have earned, or are in the process of earning, a Master's Degree who also need focused coursework to teach college-level communication courses.

Admission Requirements
Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 6945</td>
<td>Communication for the Classroom Teacher</td>
<td>3</td>
</tr>
<tr>
<td>CMST 6980</td>
<td>Applied Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CMST 6950</td>
<td>Computer Mediated Communication Research</td>
<td>3</td>
</tr>
<tr>
<td>CMST 5860</td>
<td>Persuasion and New Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two of the following

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 5898</td>
<td>Seminar</td>
<td></td>
</tr>
<tr>
<td>CMST 5852</td>
<td>Conflict Management and Negotiation</td>
<td></td>
</tr>
<tr>
<td>CMST 6953</td>
<td>Group Dynamics: Theory and Research</td>
<td></td>
</tr>
<tr>
<td>CMST 6957</td>
<td>Organizational Communication Research</td>
<td></td>
</tr>
<tr>
<td>CMST 6991</td>
<td>Communication Problems: Independent Study</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Hours 18

Certificate in Literature for Children and Young Adults
Department of Languages
Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
330-941-3420
lhardy01@ysu.edu

Certificate Description
This four-course certificate (12 semester hours total) is designed to increase students' knowledge of children's and young adult literature while helping them achieve certain career goals. For students who intend to pursue doctoral work, concentrated study in children's and young adult literature will help to
prepare them to specialize in these fields at the doctoral level. For those who

Admission Requirements

To be eligible for the graduate certificate in literature for children and young
adults, students need not have an undergraduate degree in English, but they
must have a B.A. or B.S. degree and meet the requirements for admission to the
College of Graduate Studies at YSU. Certificate courses must be completed
with a GPA of at least 3.0.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6918</td>
<td>Studies in Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6919</td>
<td>Studies in Young Adult Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6927</td>
<td>Historical Survey of Literature for Young People</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6906</td>
<td>Teaching of Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6918</td>
<td>Studies in Children's Literature (may be repeated with a different topic)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6919</td>
<td>Studies in Young Adult Literature (may be repeated with a different topic)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6975</td>
<td>English Education Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6976</td>
<td>Studies in English Education</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6990</td>
<td>Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6999</td>
<td>Writing the Youth Novel</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 12

Certificate in Mathematics

Department of Mathematics and Statistics

Dr. G. Jay Kerns
620 Lincoln Building
(330) 941-3310
gkerns@ysu.edu

Certificate Description

The Department of Mathematics and Statistics, responding to state
requirements that College in High School mathematics teachers, adjunct
faculty at colleges, and faculty at community colleges obtain at least 18
semester hours of mathematics at the graduate level, offers a Graduate
Certificate in Mathematics. The certificate is offered both traditionally and
in an online format. The certificate is an attractive option for recognizing
those looking to improve their credentials and teach College in High School
courses. In addition to teachers looking to strengthen their credentials and
background in mathematics, the certificate is a viable option for students
who seek to strengthen their mathematical background before pursuing
graduate study in mathematically-intensive disciplines such as economics
and finance. The educational objectives of this additional option within the
program are to strengthen the mathematical background and preparation of
secondary mathematics educators who teach approved college-level
mathematics courses in their high schools and to provide students a means
to strengthen their graduate mathematical background without having to
complete a graduate degree in mathematics.

Admission Requirements

The admission standards for the Graduate Certificate in Mathematics are the
following:

- The minimum admission standards of the College of Graduate Studies.
- An undergraduate cumulative grade point average of at least 3.0 in all
undergraduate mathematics and statistics courses.
- A completed sequence in standard calculus including multivariable
calculus.

Certificate Requirements

The GCM requires 6 courses (18 semester hours) selected from our rotation
of graduate course offerings in mathematics and statistics and completed
with a 3.0 GPA. At least 12 of the hours of the certificate must be completed
at the 6900-level. The student, in consultation with the Graduate Executive
Committee, will submit a curricular plan for the certificate by deciding
which mathematics and/or statistics graduate courses best meet his/her
educational goals. Course substitutions must be approved by the Graduate
Executive Committee within the Department of Mathematics and Statistics.

Certificate in Professional and Technical Writing

Department of Languages

Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
330-941-3420
lhardy01@ysu.edu

Certificate Description

This four-course certificate (12 semester hours) is designed to meet the needs
of students preparing for careers as:

- technical writers and editors;
- company news and information directors;
- or grant and proposal writers for schools, hospitals, nonprofit
organizations, and fine and performing arts groups.

Frequency of course offerings allows most students to finish the certificate
within four semesters.

Admission Requirements

To be eligible for the Professional and Technical Writing graduate certificate,
students need not have an undergraduate degree in English, but they must
have a B.A. or B.S. degree and meet the requirements for admission to the
College of Graduate Studies at YSU.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6943</td>
<td>Public and Professional Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6944</td>
<td>Document Design and Production</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two courses from Group A or one course from each Group: 6</td>
<td></td>
</tr>
</tbody>
</table>

Group A

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6945</td>
<td>Theory of Professional and Technical Communication</td>
</tr>
<tr>
<td>ENGL 6949</td>
<td>Professional and Technical Editing</td>
</tr>
<tr>
<td>ENGL 6953</td>
<td>Publications Issues and Management</td>
</tr>
<tr>
<td>ENGL 6992</td>
<td>Professional Communication</td>
</tr>
</tbody>
</table>
Although ENGL 6998 Professional Writing Internship does not count toward the 12 semester hour requirement for the certificate, students are strongly urged to take this course or seek equivalent professional experience.

Certificate in Public Health Administration

Program Directors
Dr. Nicolette Powe, YSU Program Coordinator
1104 Cushwa Hall
(330) 941-1895
nwpowe@ysu.edu
(ktrobinson@ysu.edu)

Dr. Amy Lee, CEOMPH Program Director
Consortium of Eastern Ohio Master of Public Health
NEOMED
(330) 325-6179
aff@neomed.edu

Certificate Description
Public Health has grown to encompass many disciplines and to focus on disease prevention in communities and across healthcare settings. The Graduate Certificate in Public Health Administration provides foundational skills and knowledge in working with local communities, government agencies and community-based non-profit agencies to develop health initiatives and evaluate their outcomes.

Admission Requirements
Applicants are required to have an undergraduate grade-point average of at least 3.0 (on a 4.0 scale). Applicants with a cumulative undergraduate grade point average of 2.99-2.75 will be required to submit an official report of the Graduate Record Examination (General Test) scores for admission consideration.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH 6901</td>
<td>Public Health Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6905</td>
<td>Health Services Administration in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6906</td>
<td>Policy and Environmental Health Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6907</td>
<td>Grant Writing in Public Health Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 12

Certificate Learning Outcomes

1. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
2. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels
3. Assess population needs, assets and capacities that affect communities’ health

4. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
5. Design a population-based policy, program, project or intervention
6. Explain basic principles and tools of budget and resource management
7. Select methods to evaluate public health programs
8. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
9. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
10. Advocate for political, social or economic policies and programs that will improve health in diverse populations
11. Evaluate policies for their impact on public health and health equity
12. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
13. Apply negotiation and mediation skills to address organizational or community challenges
14. Select communication strategies for different audiences and sectors
15. Communicate audience-appropriate public health content, both in writing and through oral presentation
16. Describe the importance of cultural competence in communicating public health content
17. Perform effectively on interprofessional teams
18. Apply systems thinking tools to a public health issue
19. Prepare proposals for funding from external sources.

Certificate in Public Health

Program Directors
Dr. Nicolette Powe, YSU Program Coordinator
1104 Cushwa Hall
(330) 941-1895
nwpowe@ysu.edu
(ktrobinson@ysu.edu)

Dr. Amy Lee, CEOMPH Program Director
Consortium of Eastern Ohio Master of Public Health
NEOMED
(330) 325-6179
aff@neomed.edu

Certificate Description
Public health has grown to encompass many disciplines and to focus on disease prevention in communities and across healthcare settings. The Graduate Certificate in Public Health provides foundational skills and knowledge in public health for those who wish to create healthier communities.

Admission Requirements
Applicants are required to have an undergraduate grade-point average of at least 3.0 (on a 4.0 scale). Applicants with a cumulative undergraduate grade point average of 2.99-2.75 will be required to submit an official report of the Graduate Record Examination (General Test) scores for admission consideration.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH 6901</td>
<td>Public Health Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6904</td>
<td>Biostatistics in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6902</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6903</td>
<td>Epidemiology in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6905</td>
<td>Health Services Administration in Public Health</td>
<td>3</td>
</tr>
</tbody>
</table>
Certificate Learning Outcomes

1. Apply epidemiological methods to the breadth of settings and situations in public health practice
2. Select quantitative and qualitative data collection methods appropriate for a given public health context
3. Analyze quantitative and qualitative data using biostatistics, informatics, computer-based programming and software, as appropriate
4. Interpret results of data analysis for public health research, policy or practice
5. Apply behavioral theories/models in the development of community health promotion and intervention programs as well as select research programs
6. Compare the organization, structure and function of health care, public health and regulatory systems across national and international settings
7. Discuss the means by which structural bias, social inequities and racism undermine health and create challenges to achieving health equity at organizational, community and societal levels
8. Assess population needs, assets and capacities that affect communities’ health
9. Apply awareness of cultural values and practices to the design or implementation of public health policies or programs
10. Design a population-based policy, program, project or intervention
11. Explain basic principles and tools of budget and resource management
12. Select methods to evaluate public health programs
13. Discuss multiple dimensions of the policy-making process, including the roles of ethics and evidence
14. Propose strategies to identify stakeholders and build coalitions and partnerships for influencing public health outcomes
15. Advocate for political, social or economic policies and programs that will improve health in diverse populations
16. Evaluate policies for their impact on public health and health equity
17. Apply principles of leadership, governance and management, which include creating a vision, empowering others, fostering collaboration and guiding decision making
18. Apply negotiation and mediation skills to address organizational or community challenges
19. Select communication strategies for different audiences and sectors
20. Communicate audience-appropriate public health content, both in writing and through oral presentation
21. Describe the importance of cultural competence in communicating public health content
22. Perform effectively on interprofessional teams
23. Apply systems thinking tools to a public health issue

Certificate in Public Health Research

Certificate Description

Public health has grown to encompass many disciplines and to focus on disease prevention in communities and across healthcare settings. The Graduate Certificate in Public Health Research provides foundational skills and knowledge in conducting health research with local communities.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH 6904</td>
<td>Biostatistics in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6902</td>
<td>Social and Behavioral Sciences in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6903</td>
<td>Epidemiology in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>MPH 6909</td>
<td>Public Health Research and Evaluation</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Hours</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>
1. Hold a current teaching license
2. Have at least four years of teaching experience
3. Already have a masters degree or currently enrolled in a master program
4. Provide two letters of recommendation which explain why the candidate will be successful in the program.

**Teacher Leader Certificate**
**Graduate Certificate (12 Semester Hours)**

Course of Study: Teacher Leader Endorsement

Youngstown State University

Beeghly College of Education

Graduate Certificate (12 Semester Hours)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 6901</td>
<td>Instructional Leadership Beyond the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6906</td>
<td>Data-Coaching and Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6903</td>
<td>Building Capacity of Adult Learners</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6905</td>
<td>Culturally Responsive Teaching and Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

**Learning Outcomes**

1. Candidates will be able to apply the principles of effective leadership and teacher learning.
2. Candidates will be able to make data-based decisions and evidence-based practice.
3. Candidates will be able to model ongoing professional learning and improved practice within a learning community.
4. Candidates will be able to advocate for a shared vision and clear goals for their schools to drive initiatives.
5. Candidates will be able to create and build strategic relationships and partnerships to enhance student outcomes.
6. Candidates will be able to foster a positive and inclusive culture.

**Certificate in Teaching English to Speakers of Other Languages (TESOL)**

Department of Languages

Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
330-941-3420
lhardy01@ysu.edu

**Certificate Description**

This four-course sequence (12 semester hours) is valuable for anyone who wishes to gain more knowledge of second/foreign language learning. It is also useful as a springboard to further graduate work in the field. It is designed to meet the needs of:

- K-12 language arts instructors who want more information but not necessarily state endorsement;
- writing instructors at two-year colleges; and
- students who would like to enter doctorate programs in applied linguistics, English as a second language, or second language acquisition.

Students gain an understanding of issues of language acquisition and language pedagogy.

**Admission Requirements**

To be eligible for the graduate certificate in the teaching of English to speakers of other languages, students need not have an undergraduate degree in English or linguistics but must have a B.A. or B.S. and meet requirements for admission to the College of Graduate Studies at YSU.

**Certificate Requirements**

Students who have not taken an introductory linguistics course at the undergraduate level will be expected to do extra reading to get an understanding of basic terms. The department’s advanced linguistics course (ENGL 6955 Advanced Linguistics) may also serve to provide background. Students should see an advisor for the TESOL certificate program.

Students must complete the following four courses:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6950</td>
<td>Sociolinguistics</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6951</td>
<td>Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6956</td>
<td>TESOL Methods</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6958</td>
<td>English Grammar</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Hours**

12

**Certificate in the Teaching of Literature**

Department of English

Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
330-941-3420
lhardy01@ysu.edu

**Certificate Description**

This is a four-course certificate (12 semester hours) that will be valuable for teachers of literature at junior high schools, high schools, and two-year colleges. It would also be useful as a springboard to further graduate study in literature. This certificate would allow those teaching literature or interested in teaching literature a focus within the MA in English or a stand-alone foundation in the subject.

**Admission Requirements**

To be eligible for the graduate certificate in teaching of writing, students need not have an undergraduate degree in English but must have a B.A. or B.S. degree and meet requirements for admission to the College of Graduate Studies at YSU.

**Certificate Requirements**

Students must take one course from two of the following three areas:

**British Literature**

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6911</td>
<td>The Medieval World</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6912</td>
<td>Sixteenth- and 17th-Century British Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6913</td>
<td>Shakespeare and Renaissance Drama</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6914</td>
<td>Restoration and 18th-Century British Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6916</td>
<td>Nineteenth-Century British Studies</td>
<td>3</td>
</tr>
</tbody>
</table>
Certificate in Teaching of Writing
Department of Languages
Dr. Lucas Hardy, Graduate Director
240 DeBartolo Hall
330-941-3420
lhardy01@ysu.edu

Certificate Description
This four-course certificate (12 semester hours) is valuable as an enhancement for employment as a writing instructor and also as a springboard to further graduate work in the field. It is designed to meet the needs of K–12 language arts teachers; writing instructors at two-year colleges; and YSU graduate students who would like to enter doctorate programs in rhetoric and composition. Students gain understanding of issues in the field of rhetoric and composition, such as:

- current writing pedagogy,
- assessment of writing,
- language theory,
- language varieties,
- multicultural literacies,
- electronic literacies, and
- teaching strategies incorporating electronic media.

Frequency of course offerings allows most students to finish the certificate in two to three semesters.

Admission Requirements
To be eligible for the graduate certificate in teaching of writing, students need not have an undergraduate degree in English but must have a B.A. or B.S. degree and meet requirements for admission to the College of Graduate Studies at YSU.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 6901</td>
<td>Methods of Composition Research</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6907</td>
<td>Teaching of Writing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6900</td>
<td>Methods of Literary Research</td>
<td></td>
</tr>
<tr>
<td>ENGL 6906</td>
<td>Teaching of Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 6943</td>
<td>Public and Professional Writing</td>
<td></td>
</tr>
<tr>
<td>ENGL 6956</td>
<td>TESOL Methods</td>
<td></td>
</tr>
<tr>
<td>ENGL 6976</td>
<td>Studies in English Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
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<tr>
<td>ENGL 6950</td>
<td>Sociolinguistics</td>
<td></td>
</tr>
<tr>
<td>ENGL 6958</td>
<td>English Grammar</td>
<td></td>
</tr>
</tbody>
</table>

ENGL 6993 Discourse Theory 12

1 If topic applied to rhetoric and composition.

Certificate in Working-Class Studies

Timothy Francisco, Certificate Director
DeBartolo Hall 216
(330) 941-3425
tfrancisco@ysu.edu (sllinkon@ysu.edu)

This four-course certificate (12 semester hours) is designed to provide students with an interdisciplinary overview of the history and political and cultural meanings of working-class life. Program emphasis is on concepts of class, work, and identity, as well as strategies from multiple disciplines for gaining insight into working-class culture. For graduate students and working professionals, this program will provide an in-depth look at local history, local working-class culture, and the lives and experiences of local working people. For educators at middle and high school levels, this program will enhance their teaching careers by increasing their knowledge about working-class culture, issues, and pedagogy while satisfying certain professional development requirements of local school districts. Frequency of course offerings allows most students to finish the certificate within one year.

Admission Requirements
Applicants for this graduate certificate must meet the requirements for admission to the College of Graduate Studies at YSU.

Certificate Requirements

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMER 5850</td>
<td>Class and Culture</td>
<td>3</td>
</tr>
<tr>
<td>AMER 6910</td>
<td>Introduction to Working-Class Studies</td>
<td>3</td>
</tr>
<tr>
<td>AMER 6970</td>
<td>Teaching Working-Class Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 6923</td>
<td>Working Class Literature</td>
<td>3</td>
</tr>
<tr>
<td>HIST 6939</td>
<td>Labor in US History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 6945</td>
<td>Interpretation and Preservation of the Industrial Built Environment</td>
<td>3</td>
</tr>
<tr>
<td>MGT 5845</td>
<td>Work in America</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may also petition to have one relevant topics course in English, history, or management count toward the certificate. Students may complete the certificate as a stand-alone program or in conjunction with a master’s degree in American studies, business, English, historic preservation, or history. Students taking the certificate as part of a master’s program may count two of the four certificate courses toward the master’s degree. To complete the certificate, the remaining two courses must be taken as additional credits.

Educational Licensure

Department of Teacher Education and Leadership Studies (TELS)

Dr. Jane Beese
4105 Beeghly Hall
(330) 941-2236
jbeese@ysu.edu

Post-master’s Licensure Requirements
Candidates for an Ohio administrative license must be enrolled in or have completed the M.S. in Education degree in Educational Administration. Prior
to enrolling in licensure coursework they must provide an updated professional resume and documentation from a licensed principal, superintendent, or other administrator where they work attesting to their skills, knowledge, professionalism, and leadership potential and agreeing to provide supervision in accordance with the clinical policies and procedures for YSU’s principal program.

**Principal License (OHIO) (6 semester hours)**

Elementary Principal License Grades PK-6

Middle School License Grades 4-9

Secondary Principal License Grades 5-12

The licensure coursework consists of four 1-credit clinical courses, in addition to a 2-credit course in Special Education Law. The clinical experience is designed to afford candidates the opportunity to apply the content knowledge from their course work and practice the skills necessary for effective leadership. Across the four courses, candidates observe and then carry out a range of administrative responsibilities including analyzing student performance, carrying out clinical supervision of teaching staff, writing a staff improvement plan, designing a HQ staff development program, creating a master schedule, participating in teacher hiring processes, administering student discipline, conducting school safety drills, and coordinating special education meetings and functions, among others. In addition, candidates design and implement an Integrated School Improvement Project addressing a real need in their school setting. Candidates and faculty participate in an interactive on-line clinical learning community spanning diverse and geographically dispersed clinical sites.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 7022A and 7022B must equal 4 hours</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EDAD 7022A</td>
<td>Clinical Experience: The Principalship-Elementary (E)</td>
<td></td>
</tr>
<tr>
<td>EDAD 7022B</td>
<td>Clinical Experience: The Principalship-Elementary (E)</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Hours **6**

Candidates must hold or qualify for a valid teacher certificate/license at the same level as the administrative license being sought. They must also have two years of successful teaching under a professional teaching license at the same level as the administrative license being sought. Before being recommended for licensure, candidates must have a passing score on the state prescribed administrative licensure examination for the principalship. Individuals qualifying for licensure at the Elementary or Secondary level are also issued licensure at the Middle School level.

**Administrative Specialist License in Curriculum, Instruction, and Professional Development**

Master’s degree in educational administration, plus 18 hours of course work from the following list, which must include EDAD 7040 Clinical Practice for the Administrative Specialist:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TCED 6922</td>
<td>Principles of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6934</td>
<td>Assessment and Accountability</td>
<td>3</td>
</tr>
<tr>
<td>TCED 6936</td>
<td>Curriculum, Assessment, and Instruction to Improve Learning</td>
<td>3</td>
</tr>
<tr>
<td>SPED 6900</td>
<td>Issues, Trends &amp; Ethical, Legal and Professional Guidelines in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7014</td>
<td>Data Driven School Improvement and Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 7020</td>
<td>Human Resource Leadership</td>
<td>3</td>
</tr>
</tbody>
</table>

Or a Master’s degree in curriculum at YSU, plus coursework as follows:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 6915</td>
<td>Learning, Teaching, and Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6947</td>
<td>School Building Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6949</td>
<td>Legal and Ethical Issues in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6952</td>
<td>School Finance and Budget Planning Processes</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6954</td>
<td>Community Engagement and Collaborative Partnerships</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7022</td>
<td>Clinical Experience 2: The Principalship</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7020</td>
<td>Human Resource Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6948</td>
<td>Data Driven School Improvement and Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7040</td>
<td>Clinical Practice for the Administrative Specialist</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours **30**

 Candidates must qualify for/hold a valid professional teacher certificate/license and have two years of successful teaching under a professional teaching certificate/license. In addition, candidates must have completed the prescribed number of hours and have an official score report indicating a passing score on the state prescribed administrative licensure examination required for the license.

**Superintendent License (OHIO)**

Candidates must hold an administrative certificate or license issued upon the recommendation of YSU or the equivalent thereof as evaluated by the Department of Teacher Education and Leadership Studies at YSU, complete the following course sequence, and meet any other Ohio State Department of Education requirements.

The licensure coursework consists of three 1-credit clinical courses, in addition to four 3-credit courses. This model shifts the leadership focus from the micro (school site) to the macro (school systems) level and familiarizes prospective superintendents with systems knowledge and perspective on leadership in areas from educational governance to human resource administration to technology and facilities.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 7024</td>
<td>Collective Bargaining and Systems Issues in Human Resources Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7025</td>
<td>Educational Governance: Advanced Law and Policy Seminar</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7026</td>
<td>Technology and Facilities for Learning Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7035</td>
<td>The Superintendency and Evolving Ways of Looking at Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7050A and 7050B must equal 4 hours</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>EDAD 7050A</td>
<td>Clinical Experience: Superintendent</td>
<td></td>
</tr>
<tr>
<td>EDAD 7050B</td>
<td>Clinical Experience: Superintendent</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Hours **16**

**PRINCIPAL CERTIFICATE K-12 (Pennsylvania)**

Candidates must hold a Master’s degree from an accredited program. The professional education program provides evidence that School Principal certification candidates demonstrate knowledge of and competence in working in the elementary and secondary public school settings, including completion of the 36 semester hours listed below, many of which are included in the typical master’s degree in educational administration. They must also provide an official score report indicating:
Candidates must:

- achieve a passing score on state licensure exam for principalship; and
- satisfy any other Pennsylvania Department of Education Requirements, plus:

Completion of 36 s.h. below (to extent not already taken as part of a master’s degree program):

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDAD 6931</td>
<td>Leadership in Educational Organizations: Theory to Best Practices</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6915</td>
<td>Learning, Teaching, and Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6936</td>
<td>Culturally Responsive Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6947</td>
<td>School Building Operations and Management</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7014</td>
<td>Data Driven School Improvement and Program Evaluation</td>
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</tr>
<tr>
<td>EDAD 6949</td>
<td>Legal and Ethical Issues in Public Administration</td>
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</tr>
<tr>
<td>EDAD 6954</td>
<td>Community Engagement and Collaborative Partnerships</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6955</td>
<td>Professional Development and Human Resources</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one clinical experience course as appropriate to the licensure level being sought:</td>
<td></td>
</tr>
<tr>
<td>EDAD 7018</td>
<td>School Discipline and Student Support Services: Policies, Programs and Prevention Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
<td>2</td>
</tr>
<tr>
<td>EDAD 7022</td>
<td>Clinical Experience 2: The Principalship</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Hours 36

The professional education program provides evidence that each certification candidate demonstrates knowledge and competencies that foster professionalism and ethical practices in school/community settings including:

1. Professional organizations, professional literature, resources and advocacy groups.
2. Integrity and ethical behavior, professional conduct as stated in Pennsylvania’s Code of Professional Practice and Conduct for Educators; and local, state, and federal laws and regulations.
3. Communicating effectively (orally and in writing) with students, colleagues, faculty, families, paraprofessionals, related service personnel, outside agencies and the community.
4. Recognizing the professional responsibilities of administrators’ and teachers’ roles as collaborators, team members, advocates, and service coordinators.

**Certification for the Pennsylvania Superintendent’s Letter of Eligibility**

Candidates must:

- hold a Master’s degree from an accredited program and principal’s license;
- have six years of professional service in schools, three of which shall have been in supervisory or administrative positions;
- have an official score report indicating a passing score on state licensure exam for Superintendent;
- all other State of Pennsylvania Department of Education requirements must be met;
- plus completion of the 15 semester hours listed below, many of which may already have been completed as part of the candidate’s master’s degree in educational administration and principalship certification programs.

<table>
<thead>
<tr>
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<th>TITLE</th>
<th>S.H.</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>Educational Governance: Advanced Law and Policy Seminar</td>
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<td>Technology and Facilities for Learning Organizations</td>
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</tr>
<tr>
<td>EDAD 7035</td>
<td>The Superintendent and Evolving Ways of Looking at Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7050</td>
<td>Clinical Experience: Superintendent</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 15

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**Post-masters Family Nurse Practitioner Certificate Program**

**Department of Nursing**

**Certificate Director/ FNP Director**

Dr. Valerie O’Dell, Certificate Director
3132 Cushwa Hall
(330) 941-2177
vmodell@ysu.edu

Dr. Patricia Hoyson, Family Nurse Practitioner Coordinator
3112 Cushwa Hall
(330) 941-1440
plhoysn@ysu.edu

**Certificate Description**

The online Post - Masters Family Nurse Practitioner Certificate Program at Youngstown State University is designed to prepare the Post-Masters prepared nurse with opportunities to build upon their current knowledge and obtain additional advanced practice knowledge and skill enabling them to provide direct primary care across the lifespan. The Family Nurse Practitioner Certificate Program is not a degree program. This certificate program is designed to enhance the professional development of the masters prepared nurse by providing education and training that prepares them for a family nurse practitioner’s role.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/nursing/msn/family-nurse-practitioner/).

Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and may only admit students from states in which we have approval. Online nursing program students must complete the program in the state of Ohio, Pennsylvania, West Virginia, Michigan, or Florida.

Upon completion of the certificate, graduates are eligible to take the American Nurses Credentialing Center and/or the American Academy of Nurse Practitioners FNP certification examinations. Following national certification, graduates are also qualified to be recognized as a Family Nurse Practitioner and is granted prescriptive authority through the State Board of Nursing.

**Advanced Standing Program (19 hours)**

Applicants who are already have an MSN degree with nurse practitioner qualifications are automatically considered for advanced standing status. The advanced standing program permits students to complete all requirements of the Family Nurse Practitioner option in 19 hours. This unique program blends online coursework and clinical experiences, including a practicum consisting of 600 hours in a variety of primary care settings.

Courses include:

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
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</tr>
</thead>
<tbody>
<tr>
<td>NURS 7045</td>
<td>Family Nurse Practitioner 1</td>
<td>3 sh</td>
</tr>
</tbody>
</table>

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**Post-masters Family Nurse Practitioner Certificate Program**

**Department of Nursing**

**Certificate Director/ FNP Director**

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Upon completion of the certificate, graduates are eligible to take the American Nurses Credentialing Center and/or the American Academy of Nurse Practitioners FNP certification examinations. Following national certification, graduates are also qualified to be recognized as a Family Nurse Practitioner and is granted prescriptive authority through the State Board of Nursing.

**Advanced Standing Program (19 hours)**

Applicants who are already have an MSN degree with nurse practitioner qualifications are automatically considered for advanced standing status. The advanced standing program permits students to complete all requirements of the Family Nurse Practitioner option in 19 hours. This unique program blends online coursework and clinical experiences, including a practicum consisting of 600 hours in a variety of primary care settings.

Courses include:

<table>
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<tr>
<th>COURSE</th>
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<th>S.H.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 7045</td>
<td>Family Nurse Practitioner 1</td>
<td>3 sh</td>
</tr>
</tbody>
</table>

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The program is delivered in a fully online format (https://online.ysu.edu/degrees/nursing/msn/family-nurse-practitioner/). (https://online.ysu.edu/degrees/nursing/post-masters-certificate/agacnp-program/)

Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and may only admit students from states in which we have approval. Online nursing program students must complete the program in the state of Ohio, Pennsylvania, West Virginia, Michigan, or Florida.

Graduates of this program will be qualified and eligible to take the American Nurses Credentialing Center AG-ACNP certification examination. Following national certification, graduates are also qualified to be recognized as an Adult Gerontology – Acute Care Nurse Practitioner and is granted prescriptive authority through the State Board of Nursing.

**Advanced Standing Program (18 hours)**

Applicants who have already earned an MSN degree with nurse practitioner qualifications are automatically considered for advanced standing status. The advanced standing program permits students to complete all requirements of the Adult Gerontology - Acute Care Nurse Practitioner option in 18 hours. This unique program blends online coursework and clinical experiences, including a practicum consisting of 600 hours in a variety of primary care settings.

Courses include:

- NURS 7037 Adult Gero Acute Care 1 3 sh
- NURS 7039 Adult Gero Acute Care 2 3 sh
- NURS 7041 Adult Gero Acute Care 3 3 sh
- NURS 7038 Adult Gero Acute Care 1 Practicum 3 sh
- NURS 7040 Adult Gero Acute Care 2 Practicum 3 sh
- NURS 7042 Adult Gero Acute Care 3 Practicum 3 sh

### Speciality Courses

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>NURS 7045</td>
<td>Family Nurse Practitioner 1</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7046</td>
<td>Family Nurse Practitioner 2</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7047</td>
<td>Family Nurse Practitioner 3</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7048</td>
<td>Family Nurse Practitioner 1 Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7049</td>
<td>Family Nurse Practitioner 2 Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7050</td>
<td>Family Nurse Practitioner 3 Practicum</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7051</td>
<td>Family Nurse Practitioner 4 Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours 35

Students will complete 600 hours of supervised clinical practice as part of this certificate option for national certification eligibility.

### Post-Master’s Adult-Gerontology Acute Care Nurse Practitioner

**Department of Nursing**

**Certificate Director**

Dr. Valerie O’Dell, MSN Director
3132 Cushwa Hall
(330) 941-2177
vmodell@ysu.edu

Dr. Cynthia Shields, AG-ACNP Coordinator
2328 Cushwa Hall
(330) 941-1345
cmshields@ysu.edu

**Certificate Description**

The online post Masters Adult Gerontology – Acute Care Nurse Practitioner (AG-ACNP) Certificate program option is designed to prepare the post-masters prepared nurse with opportunities to build upon their current knowledge and obtain additional advanced practice knowledge and skill to enable them to provide direct acute care to adult and older adult individuals and families.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/nursing/msn/family-nurse-practitioner/). (https://online.ysu.edu/degrees/nursing/post-masters-certificate/agacnp-program/)

Youngstown State University online nursing program must meet the standards of the state(s) in which we possess authority to provide education and...
The certificate nurse educator program is not a degree program. This program is designed to enhance the professional development of registered nurses by providing education and training that prepares them for nurse educator roles and teaching positions in academic and service settings. At the completion of this certificate program, the student would be eligible to sit for the National League for Nursing Certified Nurse Educator examination.

**Admission Requirements**
- MSN degree in Nursing from an accredited college/university
- Official transcript from each college or university attended (except YSU)
- Overall grade point average of 3.0 in graduate work
- Current Ohio Registered Nurse licensure or eligibility for Ohio licensure as a registered nurse
- Current CPR certification and current immunization
- Personal statement describing career goals
- Three letters of reference: one each from a faculty member, an employer, and a colleague
- Computer competency that includes word processing skills and the ability to communicate electronically
- Letter of intent (300 words) maximum stating one's professional career goals and how graduate education in nursing will help fulfill said goals

**Certificate Requirements**
The Nurse Education Certificate Program consists of 15 semester hours. The curriculum is designed to prepare students to implement the nurse educator role in a variety of settings. Students will develop competencies in program and curriculum design, implementation, instructional methods, and evaluation methods for diverse populations in a variety of settings.

Students are provided an opportunity to synthesize learning and function in the roles of a nurse educator by completing a required capstone practicum of 3-5 semester hours.

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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</thead>
<tbody>
<tr>
<td>NURS 7018</td>
<td>Nursing Curriculum Design</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7019</td>
<td>Nursing Instructional Methods</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7020</td>
<td>Evaluation in Nursing Education</td>
<td>3</td>
</tr>
<tr>
<td>NURS 7021</td>
<td>Nurse Educator Role</td>
<td>4</td>
</tr>
<tr>
<td>NURS 7022</td>
<td>Nurse Educator Role Practicum</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Semester Hours**

15

**Post-masters Principal Certificate**

**Certificate Coordinator**
Dr. Jane Beese
4105 Beeghly Hall
(330) 941-2236
jbeese@ysu.edu

The Principal Certificate program is for candidates who already hold a Master’s degree in an educational field other than Educational Administration. Attainment of the Principal Certificate allows the candidate to pursue the state Principal License.

The Principal Certificate program prepares reflective administrative practitioners who are capable of providing culturally responsive, vision-driven, managerial, and instructional leadership in public and nonpublic school settings.

In addition to completing the certificate program, candidates must satisfy any other state department of education requirements for the license they seek. Typically, these include, among other requirements, passing the state licensure examination and two or more years of successful experience under a standard teacher or pupil service license.

Additional coursework is provided which leads to:
- Ohio administrative licensure as elementary principal for ages 3 through 12;
- middle school principal for ages 8 through 14;
- secondary principal for ages 10 through 21;
- administrative specialist in curriculum, instruction, and professional development; and
- superintendent.

**Admission Requirements**
In addition to the minimum College of Graduate Studies admission requirements, Principal Certificate applicants should submit the following:
- Evidence that the applicant already holds a Master's degree in an educational field other than Educational Administration.
- A graduate grade point average of 3.0 or above.
- For applicants with a graduate grade point average between 2.50 and 2.99, satisfactory scores on the Graduate Record Examination or on the Miller Analogies Test.
- The names and contact information (address, phone number, and email address) for three professional references.

**Certificate Requirements**

A minimum of 24 semester hours is required for the certificate. In addition to the following Principal Certificate courses, students must successfully complete a comprehensive examination covering the Principal Certificate core courses listed under Special Notes.

**Principal Certificate**

**Introduction to School Leadership and Educational Organizations**

This program introduces students to the realities of school leadership, providing them a broader vision and deeper understanding of educational policy and organizations and the role of the school leader in promoting effective instruction and continuous school improvement. It begins to transform their perspectives from that of a person in a field related to education to one of an administrator. Other courses develop leadership knowledge and skills specific to building level operations, focusing on the role of principal in relation to staff and community, school safety and the administration of discipline, support programs and services for students with disabilities, and how legal and fiscal considerations shape and influence administrative decision making and the exercise of leadership.

Students must complete a minimum of 24 hours satisfying the following distributional requirements:

<table>
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<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>EDAD 6915</td>
<td>Learning, Teaching, and Instructional Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6933</td>
<td>Educational Leadership and Organizational Change</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6936</td>
<td>Culturally Responsive Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7020</td>
<td>Human Resource Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6949</td>
<td>Legal and Ethical Issues in Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 6952</td>
<td>School Finance and Budget Planning Processes</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7019</td>
<td>Special Education Law and Policy</td>
<td>2</td>
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<tr>
<td><strong>Licensure Core</strong></td>
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</tbody>
</table>
### Learning Outcomes

1. **Mission, Vision, and Improvement**: Program completers will be able to "collaboratively lead, design and implement a school mission, vision and process for continuous improvement that reflects a core set of values and priorities" (NELP, 2018, pg. 13).

2. **Ethics and Professional Norms**: Program completers will be able to "promote the current and future success and well-being of each student and adult by applying ethical decisions and cultivate and enact professional norms" (NELP, 2018, pg. 18).

3. **Equity, Inclusiveness, and Cultural Responsiveness**: Program completers will be able to "develop and maintain a supportive, equitable, culturally responsible and inclusive school culture" (NELP, 2018, pg. 21).

4. **Learning and Instruction**: Program completers will be able to "evaluate, develop, and implement coherent systems of curriculum, instruction, supports and assessment" (NELP, 2018, pg. 21).

5. **Community and External Leadership**: Program completers will be able to "engage families, community, and school personnel in order to strengthen student learning, support school improvement and advocate for the needs of their school and community" (NELP, 2018, pg. 25).

6. **Operations and Management**: Program completers will be able to "improve management, communication, technology, school-level governance, and operation systems, to develop and improve data-informed and equitable school resource plans, and to apply laws, policies and regulations" (NELP, 2018, pg. 28).

7. **Building Professional Capacity**: Program completers will be able to "build the school’s professional capacity, engage staff in the development of a collaborative professional culture, and improve systems of staff supervision, evaluation, support and professional learning" (NELP, 2018, pg. 31).

8. **Internship**: Program completers will be able to synthesize and apply the above outcomes through substantial, sustained, standards-based work in real school building settings.

### Special Notes

Before being granted the certificate, candidates must successfully complete a comprehensive examination covering leadership and administrative specialty courses.

Completion of the minimum number of semester hours indicated for each program and any other Ohio or Pennsylvania Department of Education requirements must be achieved before recommendation for any license. Those seeking initial administrative licensure in the State of Ohio must also obtain a passing score on the state-prescribed administrative licensure exam for the license they seek.

### Graduate Faculty

- **Jane Beese**, Ed.D., Associate Professor  
  Organizational leadership; economics of education; program evaluation
- **Charles Jeffords**, Ed.D., Assistant Professor  
  Administrative practices; school and community relations; school finance
- **Karen H. Larwin**, Ph.D., Associate Professor  
  Assessment; research design and methodology; statistics

### Post-masters Superintendent Certificate

**Certificate Coordinator**

Dr. Jane Beese  
4105 Beeghly Hall  
(330) 941-2236  
jbeese@ysu.edu

To meet the needs of principals interested in pursuing a Superintendent License, Youngstown State University now offers a program specifically aligned to the Ohio Superintendent Standards and the National Educational Leadership Preparation (District Level) Standards. This fifteen-credit, five-course program can be completed within a one year time frame. Organized in a fully online format, candidates can complete coursework while operating as working professionals. This program is designed for candidates who aspire to become superintendents.

The program is delivered in a fully online format (https://online.ysu.edu/degrees/education/superintendent-certificate/).

### Admission Requirements

In order to apply for the Superintendent Licensure Program at Youngstown State University, candidates must:

1. Minimum 3.0 Graduate GPA
2. Valid state teacher license and at least two years of successful teaching
3. Possession of valid principal or administrative specialist license

### Certificate Requirements

**Course of Study: Superintendent Licensure**

Graduate Certificate (15 Semester Hours)

<table>
<thead>
<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>EDAD 7024</td>
<td>Collective Bargaining and Systems Issues in Human Resources Administration</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7025</td>
<td>Educational Governance: Advanced Law and Policy Seminar</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7026</td>
<td>Technology and Facilities for Learning Organizations</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7035</td>
<td>The Superintendentcy and Evolving Ways of Looking at Leadership</td>
<td>3</td>
</tr>
<tr>
<td>EDAD 7050A</td>
<td>Clinical Experience: Superintendentcy (The difference between 7050A and B is simply the placement of each 7 week session.)</td>
<td>1-3</td>
</tr>
<tr>
<td>EDAD 7050B</td>
<td>Clinical Experience: Superintendentcy</td>
<td>1-3</td>
</tr>
</tbody>
</table>

**Clinical Requirement**

EDAD 7050A/B will be taken as three one-credit sessions for a total of 3 clinical hours.

### Program Prerequisites and Corequisites

Candidates must hold a principal or administrative specialist certificate/license with three years of successful experience in a position requiring a principal or administrative specialist certificate/license. Candidates must provide an official passing score on the state prescribed administrative licensure examination required for this license.

For information regarding ODE requirements, please visit: http://education.ohio.gov/Topics/Teaching/Licensure To register for the OAE Exam, please visit: http://www.oh.nesinc.com/

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**Reference**

Graduate Faculty

Jane Beese, Ed.D., Associate Professor
Organizational leadership; economics of education; program evaluation

Charles Jeffords, Ed.D., Assistant Professor
Administrative practices; school and community relations; school finance

Karen H. Larwin, Ph.D., Associate Professor
Assessment; research design and methodology; statistics

Learning Outcomes

What are the program-level outcomes for this program?

1. **Mission, Vision, and Improvement**: Candidates will be able to “collaboratively lead, design and implement a district mission, vision and process for continuous improvement that reflects a core set of values and priorities” (NELP, 2018, pg. 13).

2. **Ethics and Professional Norms**: Candidates will be able to “promote the current and future success and well-being of each student and adult by applying ethical decisions and cultivate and enact professional norms” (NELP, 2018, pg. 15).

3. **Equity, Inclusiveness, and Cultural Responsiveness**: Candidates will be able to “develop and maintain a supportive, equitable, culturally responsive and inclusive district culture” (NELP, 2018, pg. 19).

4. **Learning and Instruction**: Candidates will be able to “evaluate, develop, and implement coherent systems of curriculum, instruction, supports and assessment” (NELP, 2018, pg. 21).

5. **Community and External Leadership**: Candidates will be able to “engage families, community, and other constituents in the work of schools and the district and to advocate for district, student and community needs” (NELP, 2018, pg. 25).

6. **Operations and Management**: Candidates will be able to “develop, monitor, evaluate and manage data-informed and equitable district systems for operations, resources, and human capital management” (NELP, 2018, pg. 28).

7. **Policy, Governance, and Advocacy**: Candidates will be able to “cultivate relationships, lead collaborative decision making and governance, and represent and advocate for district needs in broader policy conversations” (NELP, 2018, pg. 31).

8. **Internship**: Candidates will be able to synthesize and apply the above outcomes through substantial, sustained, standards-based work in real district settings.

Reference


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 (http://catalog.ysu.edu/undergraduate/general-information/academic-policies-procedures/grading-system/)), 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://penguinportal.ysu.edu/):

Go to View My Bill (https://my.ysu.edu/cp/home/displaylogin/?goto=https%3A//my.ysu.edu/cp/ip/login%3Fsys%3Dscsbssb&amp;url=https%3A//scstssap.admin2.ysu.edu%3A8484/pls/PRODS/zwgktnet.P_Redirect%3FFormTarget%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 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).

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 Penguin portal. 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, Meshel 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.

Graduate 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 graduate 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 an 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.

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.

**GRADUATE CONSORTIAL PROGRAM MFA**
The Northeastern Ohio Universities Master of Fine Arts in Creative Writing is offered in a consortium of the four public universities of Northeast Ohio: the University of Akron, Cleveland State University, Kent State University, and Youngstown State University. The partnership program aligns with the missions of all four institutions to offer graduate programs that meet clearly defined regional needs. The hourly tuition rate is calculated annually based on the highest general fund and the highest instructional fee between the four institutions, approved by the fiscal representatives, and approved by the board of trustees at each institution. The tuition collected supports the administration and the instructional offerings of the program through a revenue sharing model.

**GRADUATE CONSORTIAL PROGRAM MPH**
The Consortium of Eastern Ohio Master of Public Health (CEOMPH) Program is a provided cooperatively by the University of Akron, Cleveland State University, Northeast Ohio Medical University, and Youngstown State University. Rates of current graduate students for each partner, the rates of other MPH programs and annual increases are considered each year. Tuition and fees are recommended annually by the Fiscal Issues Committee and approved by the Governing Counsel and the board of trustees at each participating institution. The tuition collected supports the administration and the instructional offerings of the program through a revenue sharing model.

**GRADUATE WORKSHOPS SPECIAL TUITION RATES**
The workshop rate is charged for workshop credit for courses taught off-site and by approved and qualified faculty who are paid by another agency.

**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.

**NURSE ANESTHETIST PROGRAM SURCHARGE - msn**
This fee is charged to graduate students in the CRNA track of the M.S.N. degree to cover costs deemed necessary for specialize equipment and training pertinent to training in anesthesia. The partnership between Youngstown State University and St. Elizabeth Health Center School for Nurse Anesthetists, Inc. outlines this arrangement. The Board of Directors of the School sets this fee and it is approved by the board of trustees.

**NURSE ANESTHETIST PROGRAM SURCHARGE - dnp**
This fee is charged to Doctor of Nursing Practice nurse anesthesia graduate students to cover costs deemed necessary for specialize equipment and training pertinent to training in anesthesia. The partnership between Youngstown State University and St. Elizabeth Health Center School for Nurse Anesthetists, Inc. outlines this arrangement. The Board of Directors of the School sets this fee and it is approved by the board of trustees.

**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.

**MAac PROGRAM FEE**
The MAac Program Fee supports professional preparation activities, professional certification exams, engagement activities, and professional seminars for Master of Accountancy students.

**MBA PROGRAM FEE**
The MBA Program Fee supports the design and delivery of the MBA program and MBA activities and services that contribute to the success of the MBA students.

**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 graduate 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.

**PRECEPTOR TECHNOLOGY FEE**
This is a charge for software used as an evaluation and document repository for clinical requirements and preceptor management.

**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.

**TRANSPORTATION FEE**
This fee is charged to all non-tuition promise students each term registered for six or more credit hours in courses designated as on-campus. This fee will allow students to receive a parking permit (at no additional charge). Students must request the permit via Penguin Portal; the permit will give them unlimited access to shuttle service and admission into designated parking areas. The transportation fee supports the operating and maintenance costs of campus parking facilities, roadways, 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 transportation fee is refundable only if the student has less than six credit hours (in courses designated as on-campus courses) by the last day of the 100% tuition refund period AND they return the 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. The transportation 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 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
  - Extended hours
  - Lab draw site

Mental health services
  - Mental health, behavioral health and addiction issues addressed
  - Two half-days per week
  - Psychiatrist

Health care 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://ysu.edu/wick-primary-care-ysu/).

**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.

**THESIS-BINDING CHARGE**
A charge is made for each copy of a master’s thesis bound by the William F. Maag, Jr. Library.

**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.

### Payment of Tuition and Fees

Students 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 some online programs. See Tuition Rates (p. 203) for Online Programs that are not eligible for the payment plan. 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
was awarded. If a student completely withdraws on or before the 60% point
the student will attend school for the entire period for which the assistance
fund from which the initial payment was made.

If a student withdraws from a study abroad field course within the applicable
for any reason either during or after the close of the add/drop
if the student withdraws from the program for any reason either during or after the close of the add/drop
in time of the period of enrollment, calculated using calendar days, a portion
eral aid awarded (Federal Pell, SEOG, Perkins Loans, Direct Loans, and
ent the provisions of the Higher Education Amendments of 1998. This
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
charges and/or refund unless an Application for Involuntary Withdrawal is submitted and approved by the Fees

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.

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 some online
programs. See Tuition Rates (p. 203) for Online Programs that are not
eligible for the payment plan.

Effect of withdrawal on a student’s aid

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 or later</td>
</tr>
</tbody>
</table>

Reduction of Title IV financial aid

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

INSTRUCTIONAL FEE

Graduate Tuition

<table>
<thead>
<tr>
<th>Credits</th>
<th>Rate</th>
<th>per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$446.59</td>
<td></td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$5,399.08</td>
<td></td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$446.59</td>
<td></td>
</tr>
</tbody>
</table>

Graduate Consortial Programs Tuition:

<table>
<thead>
<tr>
<th>Program</th>
<th>Rate</th>
<th>per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Fine Arts</td>
<td>$570.00</td>
<td></td>
</tr>
<tr>
<td>Master of Public Health (distance learning program and MPH certificates)</td>
<td>$521.00</td>
<td></td>
</tr>
<tr>
<td>Nurse Anesthetist Program Surcharge</td>
<td>$3,011.14</td>
<td>per semester</td>
</tr>
</tbody>
</table>

Graduate Workshops

| In-State Participant | $168.13 | per credit hour |
| Non-Regional Participant | $179.31 | per credit hour |

Doctoral Tuition

<table>
<thead>
<tr>
<th>Credits</th>
<th>Rate</th>
<th>per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>$477.75</td>
<td></td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>$5,733.00</td>
<td></td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>$477.75</td>
<td></td>
</tr>
</tbody>
</table>

Doctoral Consortial Programs Tuition:

<table>
<thead>
<tr>
<th>Program Surcharge</th>
<th>Rate</th>
<th>per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nurse Anesthetists</td>
<td>$1,746.19</td>
<td>per semester</td>
</tr>
</tbody>
</table>

Online Programs (not eligible for payment plan enrollment)

<table>
<thead>
<tr>
<th>Program</th>
<th>Rate</th>
<th>per credit hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Business Administration</td>
<td>$450.00</td>
<td>per credit hour</td>
</tr>
<tr>
<td>Master of Science in Education</td>
<td>$415.00</td>
<td>per credit hour</td>
</tr>
</tbody>
</table>

...
### Graduate Tuition Rates

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Credit Hours</th>
<th>Rate per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSEd Educational Administration with Principal Licensure</td>
<td>415.00</td>
<td></td>
</tr>
<tr>
<td>Master of Family Nurse Practitioner</td>
<td>527.00</td>
<td></td>
</tr>
<tr>
<td>Master of Adult Gerontology Acute Care</td>
<td>527.00</td>
<td></td>
</tr>
<tr>
<td>Master of Adult Gerontology Acute Care Post Masters Certificate</td>
<td>527.00</td>
<td></td>
</tr>
<tr>
<td>Family Nurse Practitioner Post Masters Certificate</td>
<td>527.00</td>
<td></td>
</tr>
<tr>
<td>Advanced Placement FNP Certificate</td>
<td>527.00</td>
<td></td>
</tr>
<tr>
<td>Advanced Placement AGAC Certificate</td>
<td>527.00</td>
<td></td>
</tr>
<tr>
<td>Educational Leadership Certificate</td>
<td>415.00</td>
<td></td>
</tr>
<tr>
<td>Doctor of Education, Education Leadership</td>
<td>415.00</td>
<td></td>
</tr>
</tbody>
</table>

**GENERAL FEE**

Note: General fee is not assessed for Distance Learning and Online Programs, Master of Fine Arts or Master of Public Health.

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Rate per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>91.15</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>1,093.80</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>91.15</td>
</tr>
</tbody>
</table>

**INFORMATION SERVICES FEE**

Note: Only applies to Distance Learning programs.

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Rate per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>10.61</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>127.32</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>10.61</td>
</tr>
</tbody>
</table>

**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 Online Programs, Master of Fine Arts and Master of Public Health Programs but does apply to Distance Learning Programs.

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Rate per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>15.00</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>180.00</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>15.00</td>
</tr>
</tbody>
</table>

**NON-REGIONAL SERVICE AREA SURCHARGE**

Note: Applies to Online Programs, Master of Fine Arts, Master of Public Health Programs but does not apply to Distance Learning Programs. Graduate students who received an undergraduate degree from an Ohio Institution are eligible but must submit documentation to receive the reduced rate.

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Rate per Credit Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 11 credits</td>
<td>5.00</td>
</tr>
<tr>
<td>12 to 18 credits</td>
<td>60.00</td>
</tr>
<tr>
<td>Over 18 credits</td>
<td>5.00</td>
</tr>
</tbody>
</table>

**HOUSING CHARGES**

<table>
<thead>
<tr>
<th>Housing Charge</th>
<th>Cost per Academic Year (or Summer)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room &amp; Board (per academic year)</td>
<td>9,400.00</td>
</tr>
<tr>
<td>Room</td>
<td>5,355.00</td>
</tr>
<tr>
<td>Board (12 or 8 meal plans)</td>
<td>4,045.00</td>
</tr>
<tr>
<td>Residence Hall Application Fee (academic year and/or summer)</td>
<td>35.00</td>
</tr>
</tbody>
</table>

### Additional Fees

<table>
<thead>
<tr>
<th>Fee</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reservation /Pre-payment Fee</td>
<td>250.00</td>
</tr>
<tr>
<td>Single Room Upcharge</td>
<td>1,440.00 per semester</td>
</tr>
<tr>
<td>Reduced COVID Single Room Upcharge</td>
<td>500.00 per semester</td>
</tr>
</tbody>
</table>

**Weller House Apartments**

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Cost per Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small one-bedroom apartment</td>
<td>600.00</td>
</tr>
<tr>
<td>Large one-bedroom apartment</td>
<td>650.00</td>
</tr>
<tr>
<td>Small two-bedroom apartment</td>
<td>750.00</td>
</tr>
<tr>
<td>Large two-bedroom apartment</td>
<td>800.00</td>
</tr>
<tr>
<td>Three-bedroom apartment</td>
<td>900.00</td>
</tr>
</tbody>
</table>

**Expanded Housing Rate (over-occupied rooms)** | 4,100.00 |

**Student Housing During Academic Breaks**

<table>
<thead>
<tr>
<th>Type</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nightly room rate (per day, no meals)</td>
<td>27.00</td>
</tr>
<tr>
<td>Flat fee room rate for winter break (no meals)</td>
<td>250.00</td>
</tr>
</tbody>
</table>

**Cancellation Fee**

<table>
<thead>
<tr>
<th>Period</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before April 1 (academic year) or December 15 (spring only)</td>
<td>0.00</td>
</tr>
<tr>
<td>After April 1 and before June 15 (academic year)</td>
<td>250.00</td>
</tr>
<tr>
<td>After June 15 and before August 1 (academic year) or after December 15 and before move-in day (spring only)</td>
<td>300.00</td>
</tr>
<tr>
<td>After August 1 and before move-in day (academic year/fall only)</td>
<td>350.00</td>
</tr>
</tbody>
</table>

**Summer**

<table>
<thead>
<tr>
<th>Cost per Week (or Month)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Room and Board (meals included)</td>
</tr>
</tbody>
</table>

**Summer Event Housing Rates**

<table>
<thead>
<tr>
<th>Type</th>
<th>Cost per Night</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rooms with community bathroom</td>
<td>40.00</td>
</tr>
<tr>
<td>Rooms with private or semi-private bathrooms</td>
<td>60.00</td>
</tr>
</tbody>
</table>

**Apartment-style housing (weekly rates only)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Cost per Week</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-bedroom apartment</td>
<td>150.00</td>
</tr>
<tr>
<td>Two-bedroom apartment</td>
<td>200.00</td>
</tr>
<tr>
<td>Three-bedroom apartment</td>
<td>225.00</td>
</tr>
</tbody>
</table>

**Voluntary Board Plan** (students not in University housing) go to https://ycard.ysu.edu

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Cost per Month</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courtyard Apartments (room only, per person)</td>
<td>385.00 per month</td>
</tr>
<tr>
<td>1 bed/1 bath</td>
<td>835.00 per month</td>
</tr>
<tr>
<td>2 bed/2 bath</td>
<td>710.00 per month</td>
</tr>
<tr>
<td>4 bed/2 bath</td>
<td>620.00 per month</td>
</tr>
</tbody>
</table>

**Annual 12-month Lease Rates**

- **Housing Charges:**
  - Room & Board (per academic year): $9,400.00
  - Room: $5,355.00
  - Board (12 or 8 meal plans): $4,045.00
  - Residence Hall Application Fee (academic year and/or summer): $35.00

- **Additional Fees:**
  - 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: $600.00 per month
  - Large one-bedroom apartment: $650.00 per month
  - Small two-bedroom apartment: $750.00 per month
  - Large two-bedroom apartment: $800.00 per month
  - Three-bedroom apartment: $900.00 per month

- **Expanded Housing Rate (over-occupied rooms):** $4,100.00

- **Student Housing During Academic Breaks:**
  - Nightly room rate: $27.00
  - Flat fee room rate for winter break: $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/fall only): $350.00

- **Summer:**
  - Summer Room and Board (meals included): $340.00 per week

- **Summer Event Housing Rates:**
  - Rooms with community bathroom: $40.00 per night
  - Rooms with private or semi-private bathrooms: $60.00 per night

- **Apartment-style housing (weekly rates only):**
  - One-bedroom apartment: $150.00
  - Two-bedroom apartment: $200.00
  - Three-bedroom apartment: $225.00

- **Voluntary Board Plan:** (students not in University housing) go to https://ycard.ysu.edu

- **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**
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</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special-Purpose Fees</td>
<td></td>
</tr>
<tr>
<td>MBA Program Fee</td>
<td>$50.00 per credit</td>
</tr>
<tr>
<td>MAac Program Fee</td>
<td>$50.00 per credit</td>
</tr>
<tr>
<td>MBA Program Fee</td>
<td>$50.00 per credit</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>$50.00 per month</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>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>Physical Therapy Doctoral Acceptance Deposit</td>
<td>$500.00</td>
</tr>
<tr>
<td>Preceptor Technology Fee</td>
<td>$4.00 per credit</td>
</tr>
<tr>
<td>Proficiency Examination&lt;sup&gt;2&lt;/sup&gt;</td>
<td>$45.00 per course</td>
</tr>
<tr>
<td>Student Locker Rental</td>
<td>$25.00 per year</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>Web-Based Course Fee</td>
<td>$100.00 per course</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Service Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Check Replacement Fee</td>
<td>$25.00</td>
</tr>
<tr>
<td>Child Preschool Laboratory Fee</td>
<td>$150.00 per semester</td>
</tr>
<tr>
<td>Computer-Based Placement Re-Test</td>
<td>$20.00 per test</td>
</tr>
<tr>
<td>Credit Card Convenience Fee (student accounts only)</td>
<td>2.85% minimum of $3.00</td>
</tr>
<tr>
<td>Duplicate Diploma Fee</td>
<td>$40.00</td>
</tr>
<tr>
<td>Finger Printing Fee</td>
<td>$37.00 per occurrence</td>
</tr>
<tr>
<td>Human Performance and Exercise Science Activity</td>
<td>Variable to cover cost in that course</td>
</tr>
<tr>
<td>Intramural Team Deposit</td>
<td>$10.00 per team</td>
</tr>
<tr>
<td>PC Data Recovery Service Fee</td>
<td>$100.00 per occurrence</td>
</tr>
<tr>
<td>PC Remediation Service Fee</td>
<td>$75.00</td>
</tr>
<tr>
<td>Photo I.D. Replacement Charge</td>
<td>$25.00</td>
</tr>
<tr>
<td>Reading Tutoring Fee</td>
<td>$38.00 per semester</td>
</tr>
<tr>
<td>Returned Check or Credit Card Change</td>
<td>$30.00</td>
</tr>
<tr>
<td>Rich Autism Center Pre-School Programs</td>
<td>$125.00 per week</td>
</tr>
<tr>
<td>Student Health Insurance</td>
<td>Go To: <a href="http://cms.ysu.edu/administrative-offices/student-health/student-health/">http://cms.ysu.edu/administrative-offices/student-health/student-health/</a></td>
</tr>
<tr>
<td>Technology Loaner Equipment Fee</td>
<td>$50.00 per semester</td>
</tr>
<tr>
<td>Thesis Binding</td>
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<tr>
<td>Transcript Fee</td>
<td>$6.00</td>
</tr>
<tr>
<td>Transcript Rush Fee (same day processing, US mail or in person)</td>
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<tr>
<td>Transcript Rush Fee (overnight express)</td>
<td>$35.00</td>
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### PARKING

<table>
<thead>
<tr>
<th>Service Charge</th>
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</thead>
<tbody>
<tr>
<td>Control Card Replacement</td>
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</tr>
<tr>
<td>Parking per day without permit</td>
<td>$5.00</td>
</tr>
<tr>
<td>Parking per week without permit</td>
<td>$18.00</td>
</tr>
<tr>
<td>Parking Permit (commuter) -- Students, Fall &amp; Spring - Optional</td>
<td>$45.00</td>
</tr>
</tbody>
</table>
Parking Permit (overnight) – Students, $90.00
Fall & Spring - Optional
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
$100.00
$250.00
For more information go to Parking Violations Information (https://cms.ysu.edu/administrative-offices/parking-services/parking-violations/).

MAAG 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 Hourly Rental (per day): $.55
- Overdue Closed Reserve Material Daily Rental (per day): $.55
- Overdue InterLibrary Material (per day): $.05
- Overdue OhioLINK Material (per day): $.10
- Replacement Processing Fee: $10.00
- SearchOhio (OhioLINK partner) Overdue fine (per day): $.50
- 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.

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.

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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://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 (https://www.ysu.edu/english-language-institute/) website.

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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;
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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

Visit 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/

**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 for departments across the University.

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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://cms.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 semester.

For more information about the Writing Center, please call (330) 941-3055, visit the Writing Center (https://ysu.edu/writing-center/) website or e-mail 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 building 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...
of various formats in the fields of education, special education, school 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 ITS 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 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 Rosselli. 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.

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 multipurpose 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)
- Project Pass
- Community Counseling Clinic

**Bliss Hall**

Housing the Cliffe 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
- 4 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)

- 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

**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 Complete 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
- Theatre design studio
- Film screening room
- Makeup and dressing rooms
- Green room
- Box office
- Front-of-house facilities
- Video editing and production suite

**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.

**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.

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.

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.

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 Radio
• Penguin Xing (YSU IDs, 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 DineOnCampus for details on services, hours of operation, staff directory, and the daily calendar of events.

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 Cliffe 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 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
- 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 handicapped 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
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.

Housing and Residence Life
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.

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

Graduate students enrolled in 6+ credit hours will be assessed a $115 transportation fee which includes a parking permit. Students 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 penguin 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 handicapped 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.

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
• Society of Women Engineers
• 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
• YSUscape
• 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
  • Adventure Recreation Programs
• Club Sports
• Equipment Rental
• Fitness & Wellness Programs
• Group X Classes
• 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 exhibits work of nationally and internationally known artists. The Butler Institute of American Art, a private institution located in the midst of the YSU campus, sponsors two annual competitive exhibitions, the area annual and 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’ Bliss 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.

Music
The Dana School of Music presents numerous concerts every year, and many of the School's musical ensembles are open to all university students, including Barbershop Chorus, Basketball Pep Band, Concert Band, Dana Chorale, Gospel Choir, Jazz Bands and Combos, Marching Band, Symphony Orchestra, Voices of YSU (University Chorus), Wind Ensemble, and many others. For information about these ensembles, other performance opportunities, and the multiple courses that are open to all students, please visit the Dana School of Music pages in the Cliffe College of Creative Arts section of this Bulletin.

Student groups in the Dana School of Music include:
• Dana Clarinet Society
• Dana Double Reed Society
• Dana Flute Society
• Dana Guitar Association
• Dana Horn Society
• Dana League of Composers
• Dana Piano Guild
• Dana Tuba-Euphonium Society
• Dana Vocal Society
• Ohio Collegiate Music Educators Association
• The Penguin Trombone Society
• Phi Mu Alpha Sinfonia
• Saxophone Society
• Strings Guild
• Youngstown Percussion Collective
• YSU Jazz Society

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.

Membership in the Eta Phi chapter of Alpha Psi Omega (APO), the country’s largest and most active honorary dramatics society, is open to YSU students who distinguish themselves in both theatre and scholarship. For more information about APO, please contact the Theatre & Dance Program. Dance.

Major University Theatre productions are presented in Bliss Hall, the performing arts complex that houses Ford Theater, a 400-seat standard proscenium theater, and the Spotlight Theater, a flexible capacity arena theater. In addition to accommodating major productions, the Spotlight Theater also serves as a laboratory for student-directed plays and various workshop and classroom activities.

With an emphasis on experiential learning, YSU Theatre & Dance students apply classroom theories and techniques in numerous campus productions. An active guest-artist program has also brought them into working contact with noted practitioners from the professional world. Participation in The Kennedy Center American College Theatre Festival and The American College Dance Association offers undergraduate research opportunities as well as access to industry professionals.

Intercollegiate Athletics
Intercollegiate athletics are conducted at Youngstown State University to meet the needs and interests of the entire student body as spectators or participants in healthful amateur sports. Tryouts are open to any student who qualifies under the Youngstown State University, NCAA, and conference eligibility regulations. Men's teams compete in intercollegiate baseball, basketball, cross country, football, golf, tennis, men's swimming and diving, and track and field. Women's intercollegiate teams compete in basketball, bowling, cross country, golf, lacrosse, soccer, softball, swimming and diving, tennis, track and field and volleyball.

The University’s intercollegiate athletic programs are governed by the National Collegiate Athletic Association (NCAA).

Students are encouraged to participate as athletes, cheerleaders, trainers, managers or scorekeepers in any of the varsity sports. Students who want to try out should contact the head coach of the sport of interest in either Beeghly Center or Stambaugh Stadium.

See the YSU Athletics website for more information.

Honorary Organizations
Honorary organizations related to academic fields and departments recognize outstanding achievement by University students. Many of these organizations
are local chapters of national honor societies, which provide national recognition and local scholarships.

For more information on honorary organizations in your area of academic concentration, contact the faculty department chairperson of that area, or the Student Activities Office, second floor, Kilcawley Center.

- Alpha Epsilon Delta - Honorary Premedical Society
- Alpha Kappa Mu - Historically African-American Honor Society
- Alpha Lambda Delta - Freshman Honor Society
- Alpha Phi Sigma - Criminal Justice Honor Society
- Alpha Psi Omega - Drama Honoray
- Beta Alpha Psi - Accounting and Finance
- Beta Gamma Sigma - Business
- Chi Sigma Iota - Counseling Honoray
- Eta Sigma Gamma - Health Education Honoray
- Golden Key - National Honor Society for achievement in all undergraduate fields of study
- Kappa Delta Pi - Education Honor Society
- Kappa Omicron Nu - Human Ecology
- 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
- Phi Alpha Theta - History Honoray
- Phi Epsilon Kappa - Physical Education
- Phi Kappa Phi - National Honor Society for achievement in all fields
- Pi Lambda Epsilon - Mathematics Honoray
- 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
- Society for Collegiate Journalists
- Tau Beta Pi - Engineering Honor Society
- Theta Alpha Kappa - Religious Studies & Theology
- Upsilon Pi Epsilon - Computing & Information Disciplines

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.

BERNADINE 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 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 students 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.

EXPLORING ADVISING

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.

- Resume and cover letter formatting and review
- Handshake and LinkedIn profile development
- Graduate School application support
- Job and internship search strategies
- Mock Interviews for the internships, and professional jobs

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 Rockery 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:

- 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—which 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/mailboxes 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**

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
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 Meskel 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
- 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/).

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
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 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's-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 businesses 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 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.

**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.

**Graduate Faculty**

Please see the Current Graduate Faculty Listing (http://webserv.cc.ysu.edu/grad_faculty/#/) for complete list of graduate faculty including Category 2 and 3.

**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. 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, 1987  
M.S., Alabama AM University, 1996  
Ph.D., Oklahoma State University, 2003

**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

**Dr. Diana Awad-Scrocco**

Associate Professor of English  
Graduate Faculty Member  
B.A., Youngstown State University, 2006  
M.A., Kent State University, 2008  
Ph.D., Kent State University, 2012

**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

**B**

**Dr. Rebecca Lee Badawy**

Associate Professor of Management  
Graduate Faculty Member  
Ph.D., The University of Akron, 2002

B.S., University of Illinois at Urbana-Champaign, 1995

M.S., Shahid Beheshti University, 2010

Ph.D., The University of Akron, 2018

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, 1987  
M.S., Alabama AM University, 1996  
Ph.D., Oklahoma State University, 2003

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

Dr. Diana Awad-Scrocco  
Associate Professor of English  
Graduate Faculty Member  
B.A., Youngstown State University, 2006  
M.A., Kent State University, 2008  
Ph.D., Kent State University, 2012

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  
Ph.D., The University of Akron, 2002

B.S., University of Illinois at Urbana-Champaign, 1995

M.S., Shahid Beheshti University, 2010

Ph.D., The University of Akron, 2018
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. Ganesaratnam K. Balendiran
Professor of Chemistry
Graduate Faculty Member
B.S., University of Sri Lanka, 1985
Ph.D., University of Wisconsin-Madison, 1991

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

Christopher Barzak
Professor of English
Graduate Faculty Member
B.A., Youngstown State University, 1998
M.A., Youngstown State University, 2003
M.F.A., Chatham University, 2010

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. Beadling
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. Jennifer Behney
Assistant Professor of Foreign Languages and Literatures and English
Graduate Faculty Member
B.A., Capital University, 1995
M.A., University of Findlay, 1997
Ph.D., Michigan State University, 2011

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. 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. 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. Philip Sean Brady
Professor of English
Graduate Faculty Member
B.A., Bucknell University, 1977
M.A., University of Delaware, 1979
M.A., San Francisco State University, 1986
Ph.D., State University of New York, 1990

Dr. Margaret L. Briley
Assistant Professor of Teacher Education
Graduate Faculty Member
B.S., Indiana University of Pennsylvania, 1976
M.Ed., Georgia State University, 1981
Ph.D., University of Pittsburgh, 1999

Dr. Kristopher Brown
Graduate Faculty Member
B.A., Youngstown State University, 2012
M.S., Youngstown State University, 2014
Psy.D., California Southern University, 2020

Mary Brown
Graduate Faculty Member

Dr. S. Cory Brozina
Assistant Professor and Director of First-Year Engineering
Graduate Faculty Member
B.S., Virginia Tech, 2005
M.S., Virginia Tech, 2007
Ph.D., Virginia Tech, 2015

Dr. Kristin L. Bruns
Assistant Professor of Psychology
Graduate Faculty Member
B.S., University of South Dakota, 2006
M.A., University of South Dakota, 2008
Dr. Jeffrey M. Buchanan  
Professor of English and Teacher Education  
Graduate Faculty Member  
A.B., University of Michigan, 1990  
M.A., University of Pittsburgh, 1997  
Ph.D., University of Michigan, 2002

Dr. Michael Butcher  
Professor of Biological Sciences  
Graduate Faculty Member  
B.S., Christopher Newport University, 1996  
M.S., Wake Forest University, 2000  
Ph.D., University of Calgary, 2006

Dr. Michael S. Butler  
Associate Professor of Music  
Graduate Faculty Member  
B.M., Tennessee Technological University, 2006  
M.M., University of Florida, 2008  
Ph.D., University of Florida, 2016

Dr. Alexis Byers  
Assistant Professor of Mathematics and Statistics  
Graduate Faculty Member  
B.S., Whittenberg University, 2014  
Ph.D., Western Michigan University, 2018

Dr. Jonathan J. Caguiat  
Associate Professor of Biological Sciences  
Graduate Faculty Member  
B.S., University of Michigan, 1988  
Ph.D., Michigan State University, 1995

Dr. Matthew Campbell  
Assistant Professor of Physical Therapy  
Graduate Faculty Member  
B.S., University of Maine at Presque Isle, 2010  
M.S., California University of Pennsylvania, 2011  
Ph.D., Springfield College, 2020

Dr. Cara A. Carramusa  
Assistant Professor of Physical Therapy  
Graduate Faculty Member  
B.S., D'Youville College, 2000  
M.S., D'Youville College, 2000  
Ed.D., Youngstown State University, 2019

Dr. Joseph W. Carucci  
Professor of Music  
Graduate Faculty Member  
B.A., Eastman School of Music, 1996  
M.A., University of Kentucky, 2001  
D.M.A., University of Kentucky, 2009

Dr. Dawn Lynn Cerney  
Associate Professor of Geography  
Graduate Faculty Member  
B.S., University of Lethbridge (Canada), 1994  
M.E.Des., University of Calgary (Canada), 2000  
Ph.D., Texas State University, 2006

Dr. Guang-Hwa (Andy) Chang  
Professor of Mathematics and Statistics  
Graduate Faculty Member  
B.S., Nat'l. Taiwan Col of Marine Sc. and Tech., (China), 1981  
M.S., Texas Tech University, 1987  
Ph.D., Texas Tech University, 1993

Dr. Huaiyu (Peter) Chen  
Associate Professor of Accounting and Finance  
Graduate Faculty Member  
B.A., Wuhan University, (China), 1997  
M.B.A., Clarkson University, 1999  
Ph.D., Syracuse University, 2003

Dr. Kyosung Choo  
Associate Professor of Mechanical, Industrial, and Manufacturing Engineering  
Graduate Faculty Member  
B.S., Handong Global University, 2005  
M.S., Korea Advanced Institute of Science and Technology, 2011  
Ph.D., Korea Advanced Institute of Science and Technology, 2011

Dr. Ronald K. Chordas  
Lecturer of Health Professions  
Graduate Faculty Member  
B.A., Youngstown State University, 1970  
M.S., Youngstown State University, 1977  
Ph.D., Kent State University, 1996

Joy Christiansen Erb  
Special Assistant and Professor of Art  
Graduate Faculty Member  
B.F.A., Miami University, 2001  
M.F.A., Texas Woman's University, 2005

Susan Ann Clutter  
Associate Professor  
Graduate Faculty Member  
B.A., Clark University, 1995  
M.F.S., The George Washington University, 2002

Dr. Jeffrey T. Coldren  
Professor of Psychology  
Graduate Faculty Member  
B.A., Albright College, 1983  
M.A., University of Kansas, 1988  
Ph.D., University of Kansas, 1992

Dr. Kelly Colwell  
Assistant Professor of Health Professions  
Graduate Faculty Member  
B.S.A.S., Youngstown State University, 1999  
M.R.C., Youngstown State University, 2013  
Ed.D., Youngstown State University, 2017

Dr. Eleanor A. Congdon  
Associate Professor of History  
Graduate Faculty Member  
B.A., Williams College, 1988  
M.A., University of Minnesota, 1993  
Ph.D., University of Cambridge - Gonville and Caius College, 1997

Dr. Maria Conti Maravillas  
Assistant Professor of English  
Graduate Faculty Member  
B.A., Walsh University, 2012  
M.A., Kent State University  
Ph.D., University of Arizona, 2019

Chad Cook  
Graduate Faculty Member  
Ph.D. Texas Tech University, 2003

Dr. Chester R. Cooper  
Professor of Biological Sciences  
Graduate Faculty Member
B.S., University of Pittsburgh, 1979
M.A., University of Texas, 1983
Ph.D., University of Texas, 1989

Joe Corpa
Graduate Faculty Member

Dr. Pedro Cortes
Associate Professor of Civil/Environmental and Chemical Engineering
Graduate Faculty Member
B.S., Inst. Tecnologico de Celaya (Mexico), 1997
M.S., Inst. Technologico y de Estudios Superiores de Monterrey (Mexico), 2001
Ph.D., University of Liverpool (UK), 2005

Dr. Michael J. Crescimanno
Professor of Physics and Astronomy
Graduate Faculty Member
B.A., Princeton, 1985
Ph.D., University of California, Berkeley, 1991

Dr. M. Kathleen L. Cripe
Associate Professor of Teacher Education
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