Although current at the time of publication, the information in this catalog is subject to change without notice. The University reserves the right to change requirements, fees, course offerings, or other policies at any time. Please check with the department or dean’s office for the most current information.

Youngstown State University is committed to a campus environment that values all individuals and groups, and to non-discrimination and equal opportunity for all persons without regard to sex, race, religion, color, age, national origin, sexual orientation, gender identity and/or expression, handicap/disability, or identification as a disabled and/or Vietnam Era veteran. The University is also committed to the principles of affirmative action and acts in accordance with state and federal laws. Inquiries should be directed to Youngstown State University’s Director of Equal Opportunity and Diversity, who is responsible for coordinating the University’s programs for compliance. Inquiries can be initiated in writing or by calling 330-941-3370.
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Mission</td>
<td>5</td>
</tr>
<tr>
<td>Accreditation</td>
<td>7</td>
</tr>
<tr>
<td>Assessment</td>
<td>7</td>
</tr>
<tr>
<td>Office of Equal Opportunity and Diversity</td>
<td>7</td>
</tr>
<tr>
<td>Historical Sketch</td>
<td>8</td>
</tr>
<tr>
<td>Academic Organization</td>
<td>9</td>
</tr>
<tr>
<td>Degrees Granted</td>
<td>11</td>
</tr>
<tr>
<td>Majors</td>
<td>13</td>
</tr>
<tr>
<td>New Freshman Applicants</td>
<td>15</td>
</tr>
<tr>
<td>Transfer</td>
<td>20</td>
</tr>
<tr>
<td>International Admission</td>
<td>22</td>
</tr>
<tr>
<td>Tuition, Fees, and Charges</td>
<td>28</td>
</tr>
<tr>
<td>Financial Aid and Scholarships</td>
<td>34</td>
</tr>
<tr>
<td>Academic Policies and Procedures</td>
<td>34</td>
</tr>
<tr>
<td>Placement Tests</td>
<td>35</td>
</tr>
<tr>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>Credit Hours/Class Standing/Majors</td>
<td>36</td>
</tr>
<tr>
<td>Grading System</td>
<td>39</td>
</tr>
<tr>
<td>Grade Requirements</td>
<td>42</td>
</tr>
<tr>
<td>Transcripts</td>
<td>43</td>
</tr>
<tr>
<td>Academic Honors</td>
<td>43</td>
</tr>
<tr>
<td>Student Records</td>
<td>44</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>45</td>
</tr>
<tr>
<td>General Education Requirements</td>
<td>47</td>
</tr>
<tr>
<td>Student Services</td>
<td>51</td>
</tr>
<tr>
<td>Academic Resources</td>
<td>55</td>
</tr>
<tr>
<td>Housing Services</td>
<td>59</td>
</tr>
<tr>
<td>Campus Safety</td>
<td>61</td>
</tr>
<tr>
<td>Student Activities</td>
<td>62</td>
</tr>
<tr>
<td>Campus Facilities</td>
<td>67</td>
</tr>
<tr>
<td>University/Community Outreach</td>
<td>70</td>
</tr>
<tr>
<td>Special Academic Programs</td>
<td>73</td>
</tr>
<tr>
<td>The Honors Program</td>
<td>76</td>
</tr>
<tr>
<td>The Williamson College of Business Administration</td>
<td>81</td>
</tr>
<tr>
<td>The Beeghly College of Education</td>
<td>95</td>
</tr>
<tr>
<td>The College of Fine and Performing Arts</td>
<td>115</td>
</tr>
<tr>
<td>The Bitonte College of Health and Human Services</td>
<td>133</td>
</tr>
<tr>
<td>The College of Liberal Arts and Social Sciences</td>
<td>173</td>
</tr>
<tr>
<td>The College of Science, Technology, Engineering, and Mathematics</td>
<td>199</td>
</tr>
<tr>
<td>Minor Areas of Study</td>
<td>237</td>
</tr>
<tr>
<td>Courses of Instruction</td>
<td></td>
</tr>
<tr>
<td>Course Area Abbreviations</td>
<td>402</td>
</tr>
<tr>
<td>University Administration</td>
<td>403</td>
</tr>
<tr>
<td>University Full-Service Faculty</td>
<td>404</td>
</tr>
<tr>
<td>Faculty and Staff Emeriti</td>
<td>424</td>
</tr>
<tr>
<td>Watson Awards</td>
<td>434</td>
</tr>
<tr>
<td>Heritage Award</td>
<td>435</td>
</tr>
<tr>
<td>Appendix A—Ohio Residency</td>
<td>437</td>
</tr>
<tr>
<td>Appendix B—Higher Education Act Title II Report</td>
<td>440</td>
</tr>
<tr>
<td>Index</td>
<td>443</td>
</tr>
<tr>
<td>Department Phone Numbers</td>
<td>450</td>
</tr>
</tbody>
</table>
Youngstown State University Mission Statement

Youngstown State University, an urban research university, emphasizes a creative, integrated approach to education, scholarship, and service. The University places students at its center; leads in the discovery, dissemination, and application of knowledge; advances civic, scientific, and technological development; and fosters collaboration to enrich the region and the world.

The University

• Creates diverse educational experiences that develop ethical, intellectually curious students who are invested in their communities;
• Provides access to a broad range of undergraduate programs;
• Offers graduate programs in selected areas of excellence, including those that meet the needs of the region;
• Supports economic development through applied learning and research;
• Integrates teaching and learning, scholarship, and civic engagement;
• Fosters understanding of diversity, sustainability, and global perspectives; and
• Advances the intellectual and cultural life of the city, region, and world.

Youngstown State University Core Values

We—the faculty, staff, administrators, and students of Youngstown State University—hold the following values essential to achieving the University’s mission:

Centrality of Students

We are a student-centered institution committed to the education, development, well-being, and success of students of all ages and from all walks in life. In concert with our mission to help students grow intellectually, we strive to foster their personal, social, emotional, and career growth, as well as their capacities for lifelong learning, civic responsibility, and leadership.

Excellence and Innovation

We value excellence and innovation inside the classroom and out. Thus, we strive to integrate curricular and cocurricular activities; to offer outstanding academic programs; to foster intellectual inquiry, exploration, and discovery; to transcend traditional boundaries; to apply and perfect knowledge; to encourage creativity; to provide effective tools, technologies, and facilities for learning; and to excel in research and scholarly activity, including the “scholarship of teaching and learning”—an area of research that explores how individuals teach and learn.

Integrity/Human Dignity

As a campus community, we expect all conduct to be rooted in integrity, mutual respect, and civility. We value ethical behavior in scholarly and other endeavors; believe in the dignity and worth of all people; strive to foster an appreciation of, and respect for, differences among the human race; and celebrate the diversity that enriches the University and the world.

Collegiality and Public Engagement

As scholar-citizens of many extended and interconnected communities, we pledge to work collegially and cooperatively to enrich the cultural environment; establish productive partnerships; provide responsible leadership; address community and workforce needs; foster sustainability; and bring about the greater good of the collective whole—be it the University, the city of Youngstown, the state of Ohio, the region, or beyond.
YSU Vision Statement

Youngstown State University will become a national model for university-community engagement that enhances teaching and learning, student and faculty research, and community well-being. The University will expand its regionally focused mission to include national and international emphases, while working with other colleges and universities, business and industry, and the K-12 community to stimulate the economic, technological, and cultural rebirth of Ohio.

This Vision will be supported by

• Leading scholars and practitioners using multidisciplinary approaches to address societal challenges;
• Engagement of undergraduate and graduate students in research;
• Strategic development of undergraduate and graduate programs;
• Curricular and co-curricular integration of professional and liberal education, problem-solving, critical thinking, and communication skills;
• An emphasis on applied learning and community engagement; and
• Respect for the deep and rich diversity of the communities we serve.

Priority Statements

Critical Issue 1: Enrollment/Retention
YSU will build enrollment strategically and manage it effectively.

Critical Issue 2: Programs/Teaching, Learning, and Research
YSU will promote excellence in teaching, learning, service, and research—and prepare students to undertake civic and leadership responsibilities—through programs and educational experiences that meet student and workforce needs.

Critical Issue 3: Financial Resources
YSU will manage resources efficiently and strategically, leverage them effectively, and develop additional resources to fulfill its mission.

Critical Issue 4: Image/Market
YSU will develop and communicate a positive, shared institutional identity and market its strengths and successes aggressively.

Critical Issue 5: Student Services/Alumni Relations
YSU will provide the range of student services necessary for a student-centered University to attract, support, retain, advance, and graduate students. YSU will also maintain ongoing and lifelong relationships with its alumni.

Critical Issue 6: Diversity
YSU will provide a climate of respect for all people. Its students, faculty, staff, and course content will increasingly reflect the diversity of the community, the nation, and the world.

Critical Issue 7: Technology
YSU will pursue an integrated approach in using technology to meet the academic, research, student-services, and administrative goals of the University.

Critical Issue 8: Community Engagement
YSU will undertake community partnerships to serve and address the cultural, intellectual, educational, social, and economic needs of the region.

Critical Issue 9: Human Resources Development
YSU will further develop a competent, motivated, diverse, and competitively paid workforce committed to carrying out the mission of the University.

Critical Issue 10: Facilities/University Neighborhood
YSU will develop and maintain a safe, attractive, convenient, and functional physical plant responsive to the present and future needs of students, staff, alumni, and the community. The University will work with the community to enhance the safety, aesthetics, and vitality of the campus periphery and surrounding neighborhood.
Accreditation

Youngstown State University is accredited by the Higher Learning Commission and a member of the North Central Association (web address: http://www.ncahlc.org; telephone: [312]-263-0456).

Programs within the individual colleges may be further accredited by their respective professional bodies. Those accreditations are listed in each college section.

Assessment

YSU is committed to providing an effective assessment process that supports student learning, improves academic programs, and enables YSU to provide exemplary services to all constituents. To sustain the University’s continuous improvement on all levels, the Office of Assessment collaborates to design and coordinate regular and ongoing assessment of student learning outcomes with each academic department in the six colleges for each degree program; with the Office of General Education for the general education program; and with non-academic units in ongoing efforts to document student success. A systematic feedback loop also enables both academic and non-academic units to share information about student learning with students, faculty, staff, and appropriate organizations. All information is shared in aggregate form only, and confidentiality of individual students is safeguarded. If assessment information is shared beyond the internal efforts of program improvement or accreditation, departments and the Office of Assessment abide by the Institutional Review Board guidelines at YSU.

Office of Equal Opportunity and Diversity

Youngstown State University is committed to a campus environment that values all individuals and groups and to non-discrimination and equal opportunity for all persons without regard to sex, race, religion, color, age, national origin, sexual orientation, gender identity and/or expression, handicap/disability, veteran status or any other basis protected by law. The University adheres to the principles of affirmative action and acts in accordance with all applicable state and federal laws.

The Office of Equal Opportunity and Diversity works to assess and facilitate the progress of the University in fulfilling its commitment to affirmative action, equal opportunity, and diversity for all members of the campus community. People are our first priority and most valuable resource. We believe that excellence and diversity are inextricably linked; the University is strengthened as its community becomes more diverse and inclusive, and the institution consistently reflects the contributions of all its members. We work to assure that all faculty, staff, and student members of the YSU community are full participants in their chosen fields of endeavor and are regarded and treated with dignity and respect at all times.

The Office of Equal Opportunity and Diversity responds to complaints and reports of discrimination, discriminatory harassment, sexual harassment, and retaliation at the University. The office also provides informational counseling to faculty, staff, and students who believe they have experienced such treatment.

The office monitors changes in the University’s workforce and works to recruit, hire, and retain individuals who would contribute to the diversity of the campus community. It provides a diversity orientation for faculty and staff search committees, and reviews and approves faculty and staff hiring decisions before an employment offer can be made. Periodic reports are issued to the University community on the progress the University is making in meeting its diversity goals.

The Office of Equal Opportunity and Diversity is also charged with helping the University and the University Diversity Council implement the institution’s commitment to diversity through various programs, activities and events. The Council advises the president of the University and the Board of Trustees on the formation of diversity-related policy, and the office works with faculty, staff, students, and the community to implement that policy.

Historical Sketch

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

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

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

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

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

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

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

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

In 2007, the Rayen College of Engineering and Technology incorporated the science and mathematics departments from the College of Arts and Sciences. This reorganization linked science, technology, engineering, and mathematics on one hand, and the humanities and social sciences on the other.

Youngstown State University now consists of the School of Graduate Studies and Research and six undergraduate colleges: the Williamson College of Business Administration; the Beeghly College of Education; the College of Fine and Performing Arts; the Bitonte College of Health and Human Services; the College of Liberal Arts and Social Sciences; and the College of Science, Technology, Engineering, and Mathematics. Degrees offered range from the associate, bachelor's, and master's to a doctorate in educational leadership and the Doctor of Physical Therapy.

**Academic Organization**

The Academic Division is organized in the following units:

- The Williamson College of Business Administration
- The Beeghly College of Education
- The College of Fine and Performing Arts
- The Bitonte College of Health and Human Services
- The College of Liberal Arts and Social Sciences
- The College of Science, Technology, Engineering, and Mathematics
- The School of Graduate Studies and Research

The colleges are described, along with their major programs and curricula, in subsequent sections of this catalog.

YSU also offers a B.S./M.D. program leading to medical studies at The Northeastern Ohio Universities Colleges of Medicine and Pharmacy.

The post-baccalaureate programs of the School of Graduate Studies and Research are set forth in the Graduate Bulletin and Supplement.

Virtually all departments offer courses during daytime and evening hours, and several majors may be obtained by students who are able to attend only during the evening. To accommodate working students, classes are offered on a flexible schedule—from classes that meet five days a week to classes that meet only one day a week. To better serve the community, many general education courses are also offered at the Metropolitan College site in Boardman. The main academic year runs from late August into May in two 16-week semesters. During the summer term, courses are offered both for a 12-week session and for three sessions of six weeks each. Courses are also offered in shorter time frames.

**The School of Graduate Studies and Research**

The School of Graduate Studies and Research offers programs in American studies, art education, economics, financial economics, English, and history leading to the Master of Arts degree; a program in computing and information systems leading to the Master of Computing and Information Systems degree; a program in creative writing leading to the Master of Fine Arts degree; programs in applied behavior analysis, biology, chemistry, criminal justice, environmental studies, and mathematics leading to the Master of Science degree; concentrations in accounting and general business leading to the Master of Business Administration degree; a program in health and human services leading to the Master of Health and Human Services; programs in music education, performance, music theory and composition, music history and literature, and jazz studies leading to the Master of Music degree; programs in chronic illness care, nurse anesthesia, and school nursing leading to the Master of Science in Nursing;
a program in public health leading to the Master of Public Health degree; options in chemical, civil and environmental, electrical and computer, industrial and systems, and mechanical engineering leading to the Master of Science in Engineering degree; teacher education, educational administration, educational technology, counseling, and special education programs leading to the Master of Science in Education degree and a program in social work leading to the Master of Social Work degree. The program in educational leadership offered by the Department of Educational Foundations, Research, Technology and Leadership. The program in physical therapy leads to the Doctor of Physical Therapy degree.

Certificate programs are available in autism spectrum and related disabilities, bioethics, enterprise resource planning, environmental studies, professional writing and editing, teaching of writing, health care management, literature for children and young adults, working-class studies, and teaching of English to speakers of other languages (TESOL). A certificate in applied history is also available as part of the master's program in history. Please refer to the latest Graduate Bulletin for additional program and admission information, or contact the Office of Graduate Studies and Research at 330-941-3091.

Degrees

Youngstown State University grants the following baccalaureate and associate degrees: Bachelor of Arts (B.A.), Bachelor of Engineering (B.E.), Bachelor of Fine Arts (B.F.A.), Bachelor of General Studies (B.G.S.), Bachelor of Music (B.M.), Bachelor of Science (B.S.), Bachelor of Science in Applied Science (B.S. in A.S.), Bachelor of Science in Business Administration (B.S. in B.A.), Bachelor of Science in Education (B.S. in Ed.), Bachelor of Science in Nursing (B.S.N.), Bachelor of Science in Respiratory Care (B.S.R.C.), Bachelor of Social Work (B.S.W.), Associate of Arts (A.A.), Associate of Applied Science (A.A.S.), Associate of Technical Study (A.T.S.), and Associate of Labor Studies (A.L.S.). All bachelor’s and associate degrees may be taken as honors degrees. A combined B.S./M.D. degree is offered in conjunction with the Northeastern Ohio Universities Colleges of Medicine and Pharmacy.

Majors

The college in which each major resides is noted in parentheses, with colleges coded as follows: Business Administration, WCBA; Education, BCOE; Fine and Performing Arts, FPA; Health and Human Services, BCHHS; Liberal Arts and Social Sciences, CLASS; and Science, Technology, Engineering, and Mathematics, STEM.

Baccalaureate degrees may be earned in:
Accounting (WCBA)
Adolescent/Young Adult Education (BCOE)
- Earth Science
- Integrated Language Arts
- Integrated Mathematics
- Integrated Sciences
- Integrated Social Studies
- Life Sciences
- Physical Science
- Admissions & Public Relations (WCBA)
- Africana Studies (CLASS)
- Allied Health (BCHHS)
- American Studies (CLASS)
- Anthropology (CLASS)
- Art History (FPA)
- Biological Sciences (STEM)
- Biological Sciences (CLASS)
- Business Economics (WCBA)
- Chemical Engineering (STEM)
- Chemistry (STEM)
- Civil Engineering (STEM)
- Civil & Construction Engineering Technology (STEM)
- Clinical Laboratory Science (BCHHS)
- Combined Science (STEM)
- Communication Studies (FPA)
- Media Track
- Interpersonal/Organizational Track
- Organizational Communication Track
- Computer Information Systems (STEM)
- Computer Science (STEM)
- Criminal Justice (BCHHS)
- Law Enforcement
- Corrections
- Legal Processes
- Forensic Science (BCHHS)
- Anthropology Track
- Biology Track
- Chemistry Track
- Forensic Science (BCHHS)
- Anthropology Track
- Biology Track
- Chemistry Track
- French (CLASS)
General Administration (WCBA)
General Studies (CLASS)
Geography (CLASS)
Geology (STEM)
  • Environmental Option
  • Geoscience Option
Gerontology (CLASS)
History (CLASS)
Hospitality Management (BCHHS)
Human Resource Management (WCBA)
Individualized Curriculum Program
Industrial & Systems Engineering (STEM)
Information Technology (STEM)
  • Database Option
  • E-Commerce Option
  • Multimedia/Web Design Option
  • Network Option
  • Security Option
  • Technical Support Option
Integrated Business Education (BCOE)
Italian (CLASS)
  • Interdisciplinary Cultural Studies Option
Journalism (CLASS)
Management Information Systems (WCBA)
Marketing Management (WCBA)
Mathematics (STEM)
  • Applied Mathematics Track
  • Quantitative Business Track
  • Statistics Track
Mechanical Engineering (STEM)
Mechanical Engineering Technology (STEM)
Merchandising: Fashion & Interiors (BCHHS)
Multi-Age Education (BCOE)
• Art
• French
• Health
• Italian
• Physical Education
• Spanish
Music (FPA)
• Composition
• History & Literature
• Theory
• Music Education—Instrumental
• Music Education—Keyboard
• Music Education—Vocal
• Performance—Instrumental
• Performance—Jazz
• Performance—Keyboard
• Performance—Organ
• Performance—Piano
• Performance—Recording
• Performance—Voice
Nursing (BCHHS)
Nursing (RN-BSN Completion)
Nursing Home Administration (BCHHS)
Philosophy (CLASS)
  • Pre-Counseling Track
Physical Education (BCHHS)
Physics (STEM)
Physics/Astronomy (STEM)
Political Science (CLASS)
  • Political Science—Public Management (CLASS)
Pre-Dentistry (STEM)
Pre-Forestry (STEM)
Pre-Medicine (STEM)
Pre-Law (CLASS)
Pre-Pharmacy (STEM)
Pre-Veterinary (STEM)
Professional Writing and Editing (CLASS)
Psychology (CLASS)
  • Psychology—Physical Therapy Track (CLASS)
Public Health (BCHHS)
Religious Studies (CLASS)
  • Pre-Counseling Track
Respiratory Care (BCHHS)
  • Sleep Diagnostics Option
Social Studies (CLASS)
Social Work (BCHHS)
Sociology (CLASS)
Spanish (CLASS)
Special Education, Intervention (BCOE)
  • Mild to Moderate
  • Moderate to Intensive
Studio Art (FPA)
  • General Fine Arts
  • Graphic Design
  • Painting/Printmaking
  • Photography
  • Spatial Arts
Telecommunication Studies (FPA)
Theater (FPA)
  • Musical Theater
  • Theater
  • Theater Studies
Associate degrees may be earned in:
Accounting (WCBA)
Associate of Arts (CLASS, WCBA)
Business Technology (WCBA)
Civil & Construction Engineering Technology (STEM)
Clinical Laboratory Technician (BCHHS)
  • Histotechnician Track
Computer Information Systems (STEM)
Criminal Justice (BCHHS)
  • Corrections
  • Law Enforcement
  • Loss Prevention/Asset Protection
Dental Hygiene (BCHHS)
Dietetic Technician (BCHHS)
Drafting & Design (STEM)
Electrical Engineering Technology (STEM)
  • Traditional Option
  • Computer Option
Electric Utility Technology (STEM)
  • Power Plant Technology Option
Emergency Medical Technology (BCHHS)
Finance (WCBA)
Hospitality Management (BCHHS)
Information Technology (STEM)
Labor Studies (WCBA)
Management (WCBA)
Marketing (WCBA)
Mechanical Engineering Technology (STEM)
Medical Assisting (BCHHS)
Prekindergarten (BCHHS)
Social Services Technology (BCHHS)

Associate degrees can be applied to a related baccalaureate degree or serve as the foundation for a bachelor’s degree in the same field through the Individualized Curriculum Program.

Certificates may be earned in:
- Anatomy & Physiology (STEM)
- Applied Gerontology (CLASS)
- Basic Police Training (BCHHS)
- Computer Databases (STEM)
- Computer Networking (STEM)
- Construction Management Technology (STEM)
- Electronic Commerce Technology (STEM)
- Emergency Medical Technology (BCHHS)
- Entrepreneurship (WCBA)
- Enterprise Resource Planning (WCBA)
- Geographic Information Science (CLASS)
- Information System Programming (STEM)
- Medical Coding Specialist (BCHHS)
- Multimedia and Web Design (STEM)
- Museum Studies (FPA)
- Nonprofit Leadership (American Humanics)
- School Nurse Licensure (BCHHS)

ADMISSION

Youngstown State University offers broad access to education though open admission for all Ohio high school graduates.

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

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

The Office of Undergraduate Admissions is open on weekdays and selected Saturdays. Please call the numbers above or visit the website for times. Campus tours are available twice daily M-F and on selected Saturdays. Tours can be scheduled by calling the Admissions Office or by scheduling on-line at http://cfweb.cc.ysu.edu/visit/index.cfm. Tours are best scheduled a week or more in advance, but you are welcome to visit the YSU campus and stop in the office any time without an appointment. If you schedule ahead, we can arrange free parking; otherwise, visitors can park in the F-1 (University Plaza) lot across from the Sweeney Welcome Center for a nominal fee that covers parking for a full day.

Admission to the University does not guarantee admission to every program. Some programs within the University have separate admission standards that must be met before a student may enroll in that particular program. Developmental courses are available to assist in satisfying scholastic deficiencies. Those students who lack high school subjects required by the various colleges within the University may be admitted with the understanding that these courses will be completed as soon as possible and not later than the end of the college sophomore year.

Admission with Conditions

Students will be admitted to YSU with conditions if their high school grade point average is below 2.00 and their composite ACT is 17 or below (or SAT verbal and math composite is 820 or below). For more information about admission with conditions, please see p. 13.

State Residency Status

Place of residence for admission and tuition purposes will be determined at the time of admission or readmission by the Office of Undergraduate Admissions on the basis of the residency rules stated in Appendix A and information supplied on the “Application for Admission” and “Undergraduate Application for Readmission” form.

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

Residency Status Appeal

After Undergraduate Admissions makes their determination, a decision will be sent in writing to the student. If a student wishes to appeal the decision, she or he can request an appearance before the Residence Classification Board. Such appearances occur within two weeks of the request, if possible. The Residence Classification Board’s appellate decision is final.

Please see Appendix A of this Bulletin for the complete text of the Ohio Board of Regents’ residency criteria.
Academic Credentials

Academic credentials include high school and college transcripts, test scores, GED scores, and/or any other records required for admission or granting credit. Only properly certified and signed credentials issued to YSU and received directly from the issuing institution will be accepted.

Application Fee

A non-refundable application fee of $30 is required unless the applicant is a former YSU student.

HIGH SCHOOL PREPARATION

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

- English 4
- Mathematics 3
- Science 3
- Social Studies 3
- Foreign Language†† 2
- Arts 1

Total Units 16

††Two units in one language.

It is recommended that coursework include English composition; algebra 1, 2 and geometry; laboratory science; and United States history and government.

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

Application Deadlines

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

<table>
<thead>
<tr>
<th>FALL SEMESTER 2011</th>
<th>SPRING SEMESTER 2011</th>
<th>SUMMER SEMESTER 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Deadline: Aug. 1*</td>
<td>Application Deadline: Dec. 1</td>
<td>Application Deadline: Apr. 15</td>
</tr>
<tr>
<td>Credentials Deadline: Aug. 1</td>
<td>Credentials Deadline: Dec.1</td>
<td>Credentials Deadline: Apr. 15</td>
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<tr>
<td>Former Transfer and Transfer</td>
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<tr>
<td>Application Deadline: Aug. 1</td>
<td>Application Deadline: Dec. 1</td>
<td>Application Deadline Summer I: Apr. 15</td>
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<td>Credentials Deadline: Aug. 15</td>
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<td>Credentials Deadline Summer I: May 15</td>
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<tr>
<td>Credentials Deadline: Aug. 15</td>
<td>Credentials Deadline: Dec. 15</td>
<td>Credentials Deadline Summer I: May 15</td>
</tr>
</tbody>
</table>

Beginning Dates for Each Semester

- Monday, Aug. 29, 2011
- Tuesday, Jan. 18, 2011
- Session I and Full Term: Monday, May 23, 2011
- Session II: Monday, June 20, 2011
- Session III: Tuesday, July 5, 2011

*If you are accepted for admission by February 15, you will be eligible for the Early Advisement and Registration Program (EARLY). If you do not participate in the EARLY program, please keep in mind that your orientation and registration date is based on the date of your acceptance to the University.

The following programs have a deadline date of December 31 and a credentials deadline date of January 31 for enrollment in the fall semester: dental hygiene, histotechnology, and clinical laboratory technology.

Phase I B.S./M.D.—If interested in applying for this program, contact NEOUCOM for deadlines and application procedures.

The director of Undergraduate Admissions has discretionary authority regarding these requirements under an approved procedure.
Students wishing to pursue an associate degree should have completed the following college preparatory units:

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

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

**ADMISSION STATUS**

**New Freshman Applicants**

**Ohio Residents**

Ohio Residents who have graduated from a public or chartered high school or successfully completed the General Education Development (GED) test are eligible for admission to the University. Admission to restricted academic programs may have additional requirements.

Students graduating from an Ohio non-chartered high school must show evidence of having successfully passed the GED or have an ACT composite score of 17 or higher, or have a combined critical-reading and math SAT score of 820 or higher.

Applicants who have been out of high school two or more years are not required to submit ACT or SAT test results.

**Home-schooled applicants** must meet the following criteria:

1. Applicants are required to submit results from the ACT or SAT. Those applicants who have been out of school for two or more years are exempt from this requirement.
2. An official transcript showing documentation of coursework completed of grades 9-12 and indicating date of completion of studies or graduation must be sent to Admissions.
3. Any relevant supporting documents required by the applicant’s home state verifying home school curriculum.
4. Curriculum outline, detailing course content, textbooks used, and any other relevant information regarding coursework must be submitted to Admissions.
5. A copy of the Superintendent’s Exemption Notice showing the student is excused to receive home schooling.

**Out-of-State Residents**

Out-of-state residents must have graduated from a high school with a state-approved diploma and be ranked in the upper two-thirds of their graduating class; or have an ACT composite score of 17 or higher, or have a combined SAT critical-reading and math score of 820 or higher.

Applicants who have been out of high school two or more years are not required to submit ACT or SAT test results.

Out-of-state residents who hold a valid GED will be evaluated upon an individual basis but may also be required to have an ACT composite score of 17 or higher, or have a combined SAT critical-reading and math score of 820 or higher.

**Home-schooled students** must meet the following requirements:

1. Applicants are required to submit results from the ACT or SAT. Those applicants who have been out of school for two or more years are exempt from this requirement.
2. An official transcript showing documentation of coursework completed of grades 9-12 and indicating date of completion of studies or graduation must be sent to Admissions.
3. Any relevant supporting documents required by the applicant’s home state verifying home school curriculum.
4. Curriculum outline, detailing course content, textbooks used, and any other relevant information regarding coursework must be submitted to Admissions.
5. A copy of the Superintendent’s Exemption Notice showing the student is excused to receive home schooling.

**Mercer and Lawrence Counties**

By special agreement, residents of Mercer and Lawrence Counties in Pennsylvania are afforded the same admission requirements as Ohio residents.

**Athletics Participation**

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

**Conditional Admission**

Students will be admitted to YSU with conditions if their high school grade point average is below 2.00 and their composite ACT is 17 or below (or SAT critical-reading and math composite is 820 or below).
If a student has a high school GPA below 2.00 (or does not have a high school GPA) and has not taken the ACT or SAT, the student will be conditionally admitted. However, if a conditionally admitted student who has not taken the ACT or SAT tests out of RSS 1510b and ENGL 1539 on the placement exams, the student will be reclassified as a regular-admission student.

Conditionally admitted students must meet the following requirements:

1. Conditionally admitted students cannot register for more than 14 semester hours in a single semester.
2. Students placing into R&SK 1510b must take that course in their first semester.
3. Students placing into R&SK 1510a, ENGL 1539, or ENGL 1540 must take those courses within their first 20 semester hours.
4. Conditionally admitted students are restricted to an approved list of courses (see course listing below). They may take courses not on the list with the approval of an academic advisor.
5. Conditionally admitted students must receive approval of their course schedule by an academic advisor.
6. Conditionally admitted students must, in their first semester, sign a contract with a coordinator in the Center for Student Progress committing them to work with the center until their conditional admission status is removed.

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

1. Successfully completed any developmental courses that the student has tested into (RSS 1510a, RSS 1510b, ENGL 1539 or 1540).
2. Successfully completed six semester hours of non-developmental courses.
3. Achieved good academic standing.
4. Fulfilled the contract with a coordinator in the Center for Student Progress.

A student fulfilling these requirements may file a petition with an academic advisor to have the restrictions removed.

Approved courses for conditionally admitted students:

- LASS 2600
- ASTR 1504
- BIOL 1505
- CMST 1545*
- COUN 1587
- CSIS 1500
- ECON 1503
- ENGL 1539
- ENGL 1540
- FNLG 1500
- GEOL 1504
- HSC 1568
- MATH 1500
- MATH 1501*
- MUHL 2616
- MUED 2621
- R&SK 1510a
- RSS 1510b
- SOC 1500
- THTR 1560
- THTR 1590

* Indicates that the course has a prerequisite.

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**English Requirement for Permanent Residents, Refugees, or Political Asylees**

YSU requires proof that you have sufficient knowledge of the English language to follow your program of study.

If your native language is not English, please see International Student Applicants section on p. 20.

**Early Admissions Options Program**

Youngstown State University offers an Early Admission Options Program (EAOP) which provides additional academic challenges to high school students who have demonstrated above-average academic performance. The program allows qualified high school students to experience college-level course work, supplement their high school curriculum, enjoy special interests and accumulate college credit. Course work may be applied toward a program at Youngstown State University or may be transferable. Since this is a selective admission program, students must contact the Office of Undergraduate Admissions in sufficient time to review admission standards. Financial responsibility for coursework is solely that of the student. EAOP students who plan to continue at YSU after graduation from high school must reapply to YSU and provide a final high school transcript to the Office of Undergraduate Admissions. Students interested in the EAOP should contact the Admissions Office.

**College in High School**

Youngstown State University offers the College in High School program (CHS) which allows area high school students to earn college credit for coursework that they take during the regular part of their school day at their high school. The student does NOT have to come to campus or worry about class time interfering with in-school or after-school activities. Course work may be applied toward a program at Youngstown State University or be transferable. Interested students can contact the Metro Credit Educational Outreach Office or visit www.ysu.edu/metro_credit for more information including course offerings by district, student eligibility requirements and due dates for applications. CHS is offered in Mahoning, Trumbull and Columbiana counties.

**Post-Secondary Enrollment Options (Senate Bill 140) Program**

The Ohio General Assembly has adopted a Post-Secondary Enrollment Options program (SB 140) designed to provide Ohio high school students with additional options for learning at no cost to the student. Youngstown State University welcomes the opportunity to work with high school students, their parents, and high school personnel interested in this program. The experience allows appropriately qualified students to earn college and high school graduation credits. Applications are submitted in the spring of each year for consideration of participation beginning with the following fall semester. Summer
is not included in this program. However, if students wish to attend YSU during the summer term, they may do so through EAOP. Details may be obtained from local high school guidance offices or the Office of Undergraduate Admissions.

Articulated Credit

In the presence of a formal agreement between Youngstown State University and a particular career center or high school, students may earn college credit for specified courses they successfully completed in high school. Youngstown State University has several program-specific articulation agreements with career centers and high schools, including Ashtabula County Joint Vocational School, Choffin Career and Technical Center, Columbiana County Career and Technical Center, Girard High School, Mahoning County Career and Technical Center, Maplewood Career Center, Trumbull Career and Technical Center and Mercer County Career and Technical Center. Students in those articulated programs receive instructions from their career/technical center or high school about how to have earned credits posted to their YSU transcripts after they enroll at YSU. Students who complete College Tech Prep programs may also receive specified articulated college credit. For information about College Tech Prep programs at YSU, see http://www.ysu.edu/adtp.

High School Transcripts

Applicants must arrange to have their high schools send to the Office of Undergraduate Admissions a record of all work completed. Partial transcripts will be given consideration for early decisions. If the applicant’s record clearly indicates satisfactory completion, notification of conditional acceptance will be made before high school graduation.

Non-Matriculated Admission

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

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

TRANSFER

An applicant who has graduated from high school and was enrolled in another college or university for at least one course is classified as a transfer applicant. This classification includes post-graduate applicants from other institutions seeking additional undergraduate coursework.

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

OBOR Transfer Module

The Ohio Board of Regents’ Transfer and Articulation Policy established the transfer module, which is a subset or entire set of a college or university’s general education curriculum in A.A., A.S. and baccalaureate degree programs. Students in applied associate degree programs may complete some individual transfer module courses within their degree program or continue beyond the degree program to complete the entire transfer module. The transfer module contains 54-60 quarter hours or 36-40 semester hours of course credit in English composition (minimum 5-6 quarter hours or 3 semester hours); mathematics, statistics and formal/symbolic logic (minimum of 3 quarter hours or 3 semester hours); arts/humanities (minimum 9 quarter hours or 6 semester hours); social and behavioral sciences (minimum of 9 quarter hours or 6 semester hours). Oral communication and interdisciplinary areas may be included as additional options. Additional elective hours from among these areas make up the total hours for a completed transfer module. Courses for the transfer module should be 100- and 200-level general education courses commonly completed in the first two years of a student’s course of study. Each state-assisted university, technical and community college is required to establish and maintain an approved transfer module.

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

Transfer Assurance Guides

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

Students should also check with their department about which courses have received approval from OBOR as part of the Transfer Assurance Guide program. Only those courses that have received such approval can be guaranteed transfer credit as part of the major. Students may also check with the OBOR TAG website link http://regents.ohio.gov/transfer/index.php.

OBOR Conditions for Transfer Admission

1. Ohio residents with associate degrees from state-assisted institutions and a completed, approved transfer module shall be admitted to any state institution of higher education in Ohio, provided their cumulative grade point average is at least 2.0 for all previous college-level courses. Further, these students shall have admission priority over out-of-state associate degree graduates and transfer students.

2. When students have earned associate degrees but have not completed a transfer module, they will be eligible for preferential consideration for admission as transfer students if they have grade point averages of at least a 2.0 for all previous college-level courses.

3. In order to encourage completion of the baccalaureate degree, students who are not enrolled in an A.A. or A.S. degree program but have earned 60 semester or 90 quarter hours or more of credit toward a baccalaureate degree with a grade point average of at least a 2.0 for all previous college-level courses will be eligible for preferential consideration for admission as transfer students.

4. Students who have not earned an A.A. or A.S. degree or who have not earned 60 semester hours or 90 quarter hours of credit with a grade point average of at least a 2.0 for all previous college-level courses are eligible for admission as transfer students on a competitive basis.

5. Incoming transfer students admitted to a college or university shall compete for admission to selective programs, majors, and units on an equal basis with students native to the receiving institution.

Acceptance of Transfer Credit

To recognize courses appropriately and provide equity in the treatment of incoming transfer students and students native to the receiving institution, transfer credit will be accepted for all successfully completed college-level courses completed in and after fall 2005 from Ohio state-assisted institutions of higher education. Students who successfully complete A.A. or A.S. degrees prior to fall 2005 with a 2.0 or better overall grade point average would also receive credit for all college-level courses they have passed. (See Ohio Articulation and Transfer Policy, Definition of Passing Grade, Appendix D on the OBOR website, http://regents.ohio.gov/transfer/index.php) While this reflects the baseline policy requirement, individual institutions may set equitable institutional policies that are more accepting. Pass/fail courses, credit by examination courses, experiential learning courses, and other nontraditional credit courses that meet these conditions will also be accepted and posted to the student record.
Transferring to YSU

Transfer Credit

Transfer credit is given for all coursework taken at a regionally accredited institution, provided that the student has a cumulative point average equivalent to at least a 2.0 (on a 4.0 system) at that institution and the work is creditable towards a degree at that institution. YSU accepts a “D” grade on the same basis as the rules governing native students. Courses from nonregionally-accredited institutions may be accepted on a case-by-case basis with the approval of the chair of the department and the dean of the college in which the course would be housed at YSU. For example, a “D” grade might not satisfy a prerequisite for which a higher grade is needed.

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

Transfer applicants who are in good standing at the last institution attended and who have an aggregate cumulative point average of 2.0 or higher (on a 4.0 system) for all previous college-level courses are admitted in good standing. Transfer applicants with an aggregate cumulative point average of less than 2.0 or who are on probation will be admitted on probationary status for one term. Applicants suspended or dismissed from their most recent institutions are not eligible for admission until at least one semester (excluding summer) has passed following the term in which the suspension occurred. Transfer students with multiple suspensions or a dismissal may not be eligible for admission. See the reinstatement policy for YSU students in the University Bulletin. Consistent with undergraduate academic policy, failure to maintain a grade point average of 2.0 or higher (on a 4.0 system) during the probationary semester will result in academic suspension.

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

Credentials for Transfer Students

Official transcripts must be sent directly from the issuing institution to the YSU Office of Undergraduate Admissions. The Ohio Board of Regents has established a transfer clearinghouse to receive, annotate, and convey transcripts among state-assisted colleges and universities.

Pre-baccalaureate. All undergraduate transfer applicants will need to provide the Youngstown State University Office of Undergraduate Admissions with an official copy of their high school transcript and must provide an official copy of all undergraduate transcripts.

Baccalaureate. Postgraduate applicants are required to submit a transcript from the institution that granted their highest degree. High school transcripts and any other undergraduate transcripts are not required unless specifically requested by YSU.

General Education and the Transfer Module

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

2) For those students who have completed the transfer module at another university or college, equates will be established for YSU courses and the transferred courses. The General Education Office will determine how many hours remain to be completed and which domains need to be satisfied. Students may find a list of courses that satisfy each domain on the general education website www.ysu.edu/ger/.

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

**Transfer from a Regionally Accredited Institution—Articulation Agreements**

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

**College of Liberal Arts and Social Sciences**

- Eastern Gateway Community College
- Butler County Community College

**Beeghly College of Education**

- Eastern Gateway Community College—early childhood education
- A consortium of fourteen Ohio public and private institutions in northeast Ohio

**College of Science, Technology, Engineering, and Mathematics**

- Eastern Gateway Community College—Power Plant Technology
- Belmont Technical College—Power Plant Technology

**Bitonte College of Health and Human Services**

- Loraine County Community College
- Allied Health Partnership Program
- Criminal Justice Baccalaureate Degree Program
- Public Health Partnership Program
- Social Work Baccalaureate Degree Partnership

- Cuyahoga County Community College
- Allied Health Partnership

- Columbus State Community College
- Allied Health Partnership Program

- Winner Institute of Arts & Sciences
- Culinary Arts Partnership Program

- National Restaurant Association
- Hospitality Management Academic Credit
- Food and Nutrition Academic Credit

The College also has articulation agreements with the following career and technical centers to award college credit for various courses: Choffin, Mahoning County, Trumbull County, and Columbiana County. Most of this credit is applicable in the Departments of Health Professions and Criminal Justice & Forensic Sciences. Please contact those departments for additional information.

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

**Transferring from YSU**

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

**YSU TAG Courses**

Students should check with their department about which courses have received approval from OBOR as part of the Transfer Assurance Guide program. Only those courses that have received such approval can be guaranteed transfer credit as part of the major at another state institution. Students may also check with the OBOR TAG website link (http://regents.ohio.gov/transfer/index.php).

**YSU Transfer Module**

Based on OBOR guidelines, students wishing to transfer to another state college or university can complete the general education transfer module by taking the following:

- Writing I, II (6 hours), one of the substitute mathematics courses (see GER Basic Skills chart, 3-5 hours), Natural Science (must include one laboratory science and two different disciplines, 6-9 hours), Arts/Humanities (must include two different disciplines, 6-9 hours), Social and Behavioral Sciences (must include two different disciplines, 6-9 hours), Oral Communication Course (3 hours) and Interdisciplinary Studies wherein students may substitute one course designated as a special topics course for natural science, arts/humanities or social and behavioral sciences.
Consult with an advisor or the General Education Office to determine in which area special topics courses may substitute. No course may count unless it is on the 1500 or 2600 level. The student must take the minimum credits in each category and at least 36 credits overall to complete the transfer module. However, each course approved as part of a university’s Transfer Module is guaranteed credit at another state institution as a general education course.

Students planning to transfer from YSU should refer to the Bulletin (see the tables on pages 47 and 48) for a list of general education courses approved as part of the transfer module. Only those with a diamond will receive general education credit. This information will also be available on the general education website, which is linked to the YSU homepage. Since these state-defined categories do not match the domains at YSU, a student planning to transfer to YSU should check with the general education coordinator (330-941-2983) to determine where their general education courses fit within the YSU general education program.

**Advanced Placement (AP)**

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

Beginning in the fall term 2009:

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

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

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

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

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

**Appeals**

A student who disagrees with the award of transfer credit by the receiving institution has the right to appeal the decision and should contact the Office of Undergraduate Admissions to begin the process. The institution will make the student aware of the entire appeal process at the time of contact. You can also visit this website for an explanation of the process—http://www.ysu.edu/admissions/pdfs/transfer_appeal.pdf

**Admission with Non-Traditional Credit**

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

**Veterans**

Efforts are made to give all necessary guidance and assistance to military veterans and others eligible for VA educational benefits.

Courses taken through the United States Armed Forces Institute (USAFI) or the Defense Activity for Non-Traditional Education Support (DANTES) as well as certain formal service school courses may be considered for transfer toward the student’s degree program. USAFI or DANTES courses must be evidenced by an official transcript, and service school courses by certification of in-service training on DD Form 214 (Armed Forces of the United States Report of Transfer or Discharge).

An individual who has served or is serving in the United States Armed Forces and has completed Basic Military Training will receive credit for that training. Credit may also be granted for Advanced Individual Training (A.I.T.) obtained while a member of U.S. Armed Forces. A copy of the applicant’s DD 214 or DD 229 must be supplied to the Office of Veterans Affairs in order to validate such credit. AARTS (Army), SMARTS (Sailors and Marines), CCAF (Air Force), and Coast Guard Institute transcripts should be provided to the Office of Admissions. Granting of credit for A.I.T. will be based on the American Council of Education’s (A.C.E.) recommendation. Credits granted may not be applicable to specific degree requirements. The University participates in the Con-Ap Program.

Questions should be addressed to the Office of Veterans Affairs, 330-941-2503.

**Credit by Examination**

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

Advanced Placement Program (APP)—available only through student’s high school.

College Level Examination Program (CLEP)

Departmental Examinations—Call the specific department for a list of available exams and registration information.
Online Credit

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

Transient Applicants

A student seeking a degree at another institution may ordinarily take one semester of course work at YSU as a transient student. The student must apply for admission to the University and provide a statement from the registrar from the student’s current institution that she or he is in good standing. Only students in good academic standing and eligible to return to their institution will be permitted to enroll as transients. Students who wish to remain as a transient student for a second consecutive semester should contact Undergraduate Admissions. A transient student who wishes to transfer to Youngstown State University must complete an Undergraduate Application Form, provide an official high school transcript, and submit official transcripts from all other colleges attended.

Former-Student Applicants

All students who have interrupted their attendance at Youngstown State University for three consecutive semesters must reactivate their record in the Office of the Registrar or in the Office of Records. Students who have attended any accredited college or university since last attending YSU must contact the Office of Undergraduate Admissions, submit an application and provide all official documentation described under, “Credentials for Transfer Students.”

Suspended Students

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

See Grade Requirements on p. 40 for rules regarding suspension and reinstatement.

Combined Bachelor of Science/Doctor of Medicine Applicants (B.S./M.D.)

Prospective students seeking admission to the YSU combined B.S./M.D. degree program must submit an application for admission to Northeastern Ohio Universities Colleges of Medicine and Pharmacy and must take either the ACT or the SAT. Official results from either the ACT or SAT must be sent directly to the Northeastern Ohio Universities Colleges of Medicine and Pharmacy from the testing agency. Also, high school transcripts with grades through the junior year must be mailed directly from the high school to the Northeastern Ohio Universities Colleges of Medicine and Pharmacy.

Northeastern Ohio Universities College of Medicine is a publicly chartered and funded institution in the state of Ohio. Therefore, its charter mandates giving admissions preference to residents of the state of Ohio as defined by the Ohio Board of Regents. Only U.S. citizens and permanent residents may be considered for admission to NEOUCOM. Upon application, you must have U.S. citizenship or permanent-resident status.

"In the early action admissions phase, the deadline for application and official transcripts and test results is October 15, in the regular admissions phase, this deadline is December 15, both deadlines preceding the summer in which the program begins. Students should consult with NEOUCOM or the latest application process information and visit the website http://www.neoucom.edu/audience/applicants."
available for education and living expenses while attending the University.

2. Official credentials and transcripts from all secondary schools, colleges, and universities that the student has attended, including subjects studied, grades, and a key to the grading system. If credentials are not in English, official translations must be provided. Transfer credits may be granted for courses taken at U.S. and overseas accredited institutions only if an official syllabus or course description is provided; other options include credit by examination. Evidence of academic and disciplinary good standing at the last prior institution with a minimum grade point average of 2.00 (on a 4.00 scale). Some YSU programs may have higher requirements.

3. Transfer applicants who have successfully completed more than one year of full-time post-secondary study (excluding English-as-a-second-language [ESL] courses) do not need to submit secondary school records or results of school certificate, matriculation, or certificate of education examinations. However, they must submit official transcripts and syllabi for all college-level work as described above.

4. English Language Proficiency

Applicants whose education is from an English-medium secondary or postsecondary institution in the following countries are exempt from the standardized English proficiency testing requirement: Antigua & Barbuda, Australia, Bahamas, Barbados, Belize, Bermuda, Botswana, the British Caribbean and British West Indies, Canada, Cook Islands, Dominica, Fiji, Gambia, Ghana, Granada, Guyana, Ireland, Jamaica, Kenya, Kiribati, Liberia, Mauritius, Micronesia, Namibia, Nauru, New Zealand, Nigeria, Niue, Northern Marianas, Papua-New Guinea, St. Christopher Nevis, St. Lucia, St. Vincent, Seychelles, Sierra Leone, Solomon Islands, South Africa, Swaziland, Trinidad & Tobago, Uganda, United Kingdom and the United States (except Puerto Rico), Zambia, and Zimbabwe. International students who graduate from an English-medium secondary school in the United States are required to submit either the ACT or SAT.

All other applicants for whom English is a second language must present evidence of proficiency in the English language in one of the following ways:

1) Official Test Score on one of the following:
   a) Test of English as a Foreign Language (TOEFL) directly from the Educational Testing Service (ETS) with a minimum score of:
      • 500 or higher on the paper & pencil test
      • 173 or higher on the computer-based test, or
      • 61 or higher on the Internet Based TOEFL test (IBT)
   b) a minimum score of 69 on the Michigan English Language Assessment Battery Test (MELAB)
   c) a minimum score of 5.5 composite on the International English Language Testing System (IELTS)
   d) a minimum score of GRADE I on the Society for Testing English Language Proficiency (STEP) Test
   e) a minimum score of 950 on the SAT II English Language Proficiency Test

2) Successful completion of 24 semester hours of college-level coursework from an accredited English-medium college in the United States or another country where English is an official language.

3) Students may also be referred to enroll in CISP’s full-time English Language Institute (ELI); for information call 330-941-2336 for applications. Successful completion of the English Language Institute at YSU fulfills the proficiency requirement (determined by examination and classroom assessment).

4) Applicants whose standardized test score is below the minimum may be admitted, at the discretion of the University, if there is compelling additional evidence of language proficiency commensurate with academic study at YSU.

Students may be required to enroll in supplemental noncredit courses in English as a second language (ESL). Applicants may be required to submit additional materials.

**TOEFL/MELAB Registration and Official Score Reports**

It is to your advantage to take the TOEFL early or before the application process. The **TOEFL Bulletin**, which includes a registration form, is available in many locations outside of the U.S., usually at American embassies and consulates, U.S. educational commissions and foundations, binational centers, and many private organizations, such as the Institute of International Education (IIE), the African-American Institute (AAI), American-Mideast Educational and Training Services (AMIDEAST), and the American-Korean Foundation. You may also contact: TOEFL/TSE Educational Testing Services, P.O. Box 6154, Princeton, NJ 08541-6154, USA (website www.toefl.org; telephone 609-771-7780). The official reporting TOEFL code for YSU is 1975.

You may register for the MELAB if you are unable to take the TOEFL. For more detailed information about the MELAB, contact: English Language Institute, MELAB Office, TCF Building, University of Michigan, 401 E. Liberty, Ste. 350, Ann Arbor, MI 48104-2298. Telephone 866-696-3522, fax 734-615-6586.

**The English Language Institute (ELI)**

The English Language Institute (ELI) at YSU was established through the Center for International Studies and Programs (CISP) and the Department of English to provide intensive study of English to speakers of other languages. It offers pre-college, non-credit courses designed to teach English to students who already have some knowledge of English. In addition, the ELI provides an orientation to college life and culture in the U.S. Courses are available both to international students and to immigrants.
English-as-a-second-language courses cannot be used as credit toward a degree. Applicants need to understand in advance that deficiencies in English may increase the amount of time and money required for completing a regular program of study.

Proficiency testing is also available by special arrangement. YSU’s Center for International Studies and Programs (CISP) administers both the institutional TOEFL and the MELAB. These scores are valid at YSU only.

For more information see English Language Institute (ELI) in the Special Academic Programs section on p. 75.

Types of Admission for International Students

Regular Admission

Regular admission will be granted if your records meet YSU’s academic requirements for admission, satisfy the high school curriculum requirements, and show that you have adequate preparation for study in your proposed major. Regular admission is unconditional admission.

Conditional Admission

Students meeting all the above admissions requirements except the specified level of English proficiency may be admitted conditionally. This admission is conditional upon successful completion of English language study at CISP’s English Language Institute (ELI).

Admission with Transfer Credit

All transfer credit is evaluated by the Center for International Studies and Programs. Credits from accredited or officially recognized institutions in other countries will be evaluated upon presentation of official transcripts, official translations and course descriptions. Students holding undergraduate degrees equivalent to the bachelor’s degree may be admitted to the University for post-baccalaureate study upon recommendation of the International Undergraduate Admissions Committee consisting of the dean of the proposed college, CISP’s director, and the chair of the relevant department.

Standardized Academic Testing

Scores on the SAT or ACT are required only for the admission of international students from Canada, those who are attending U.S. high schools or international schools that follow a U.S. high school curriculum, and those who intend to participate in the intercollegiate athletic program and need to comply with NCAA eligibility requirements.

Other students will be tested on a case-by-case basis.

To receive more information about the SAT I: Reasoning Test, contact:

The College Board
SAT Program
P.O. Box 6200
Princeton, NJ 08541-6200 USA
Telephone: 609-771-7600
Web address: www.collegeboard.org
YSU’s SAT reporting code number: 1975

To receive more information about the ACT, contact:

ACT National Office
500 ACT Drive
P.O. Box 168
Iowa City, IA 52243-0168
Telephone: 319-337-1000
Fax: 319-339-3020
Web address: www.act.org
YSU’s ACT reporting code number: 3368
# STUDENT FEES AND CHARGES

**Effective Fall 2010**

## TUITION

### *INSTRUCTIONAL FEE*

**Undergraduate:**
- Part-time, 1 to 11 credits ................................................................. $241.78 per credit
- Full-time, 12 to 16 credits ............................................................... $2,901.36 per semester
- Undergraduate credits over 16 ...................................................... $241.78 per credit

**Graduate Students:**
- 1 to 11 credits .................................................................................. $340.77 per credit
- 12 to 16 credits .................................................................................. $4,089.24 per semester
- Graduate credits over 16 ................................................................. $340.77 per credit

**Graduate Consortial Programs**
- Master of Fine Arts ......................................................................... $488.00 per credit
- Master of Public Health ..................................................................... $515.00 per credit

**Graduate Workshops Special Rates**
- In-state Participant ............................................................................ $129.32 per credit
- Regional Participant .......................................................................... $137.66 per credit
- Non-Regional Participant ................................................................ $137.66 per credit

**Nurse Anesthetist Program Surcharge** ................................................ $2,314.29 per semester

**Doctoral Students:**
- 1 to 11 credits .................................................................................. $340.77 per credit
- 12 to 16 credits .................................................................................. $4,089.24 per semester

**Students registering for excess credits** ............................................ $236.36 per credit

**Students registering for 12 to 16 credits** ........................................ $2,836.32 per semester

**Students registering for 1 to 11 credits** .......................................... $236.36 per credit

**Doctoral credits over 16** ................................................................. $340.77 per credit

### *GENERAL FEE*

- Students registering for 1-11 credits ................................................. $48.65 per credit
- Students registering for 12-16 credits .............................................. $583.80 per semester
- Students registering for credits over 16 ........................................... $44.51 per credit

### *INFORMATION SERVICES FEE*

- 1-11 credits ...................................................................................... $9.54 per credit
- 12-16 credits .................................................................................... $114.48 per semester
- Over 16 credits ................................................................................ $9.54 per credit


*These fees are required of all students. The non-resident tuition surcharge, college fees, and others listed below may or may not apply.

## NON-RESIDENT TUITION SURCHARGE

**Western Pennsylvania Advantage!**

**Undergraduate:**
- Students registering for 1 to 11 credits ........................................... $8.34 per credit
- Students registering for 12 to 16 credits ......................................... $100.08 per semester
- Students registering for credits over 16 ......................................... $8.34 per credit

**Regional Service Area:**

**Undergraduate:**
- Students registering for 1 to 11 credits ........................................... $112.19 per credit
- Students registering for 12 to 16 credits ......................................... $1,346.28 per semester
- Students registering for excess credits ........................................... $112.19 per credit

**Graduate Students:**
- 1 to 11 credits ................................................................................ $8.34 per credit
- 12 to 16 credits .............................................................................. $100.08 per semester
- Graduate credits over 16 ............................................................... $8.34 per credit

**Non-Regional Service Area:**

**Undergraduate:**
- Students registering for 1-11 credits ............................................. $236.36 per credit
- Students registering for 12-16 credits ........................................... $2,836.32 per semester
- Students registering for excess credits ........................................... $236.36 per credit

**Graduate Students:**
- 1-11 credits ................................................................................... $8.34 per credit
- 12 to 16 credits ............................................................................... $100.08 per semester
- Graduate credits over 16 ............................................................... $8.34 per credit

## COLLEGE FEE

**Bitonte College of Health & Human Services Fee (Junior and Senior Level only)**
- 1-11 credits ................................................................................... $6.50 per credit
- 12-16 credits ................................................................................... $78.00 per semester
- Over 16 credits ............................................................................... $6.50 per credit

**College of Science, Technology, Engineering & Mathematics (Junior and Senior Level only)**
- 1-11 credits ................................................................................... $17.00 per credit
- 12-16 credits ................................................................................... $204.00 per semester
- Over 16 credits ............................................................................... $17.00 per credit

**College of Liberal Arts & Social Sciences (Junior and Senior Level only)**
- 1-11 credits ................................................................................... $5.00 per credit
- 12-16 credits ................................................................................... $60.00 per semester
- Over 16 credits ............................................................................... $5.00 per credit
### HOUSING CHARGES

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room and Board per academic year</td>
<td>$ 7,600.00</td>
</tr>
<tr>
<td>Payable as follows: $3,800.00 fall semester, and $3,800.00 spring semester.</td>
<td></td>
</tr>
<tr>
<td>Residence Hall Security Deposit (paid first semester)</td>
<td>$ 200.00</td>
</tr>
<tr>
<td>(If a resident does not stay through spring semester, the $200 deposit is forfeited.)</td>
<td></td>
</tr>
<tr>
<td>Single Room Surcharge</td>
<td>$ 865.00 per semester</td>
</tr>
<tr>
<td>Student Housing During Academic Breaks</td>
<td></td>
</tr>
<tr>
<td>1 – 3 days (no meals, per day)</td>
<td>$ 24.00</td>
</tr>
<tr>
<td>Per week (7 meals per week)</td>
<td>$ 190.00</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
</tr>
<tr>
<td>Room and Board (10 meals per week)</td>
<td>$ 230.00</td>
</tr>
<tr>
<td>Apartments (room only, per person, per week)</td>
<td>$ 195.00</td>
</tr>
<tr>
<td>Weller House Apartments (room only)</td>
<td>$ 6,200.00 per academic year</td>
</tr>
</tbody>
</table>

### SPECIAL-PURPOSE FEES

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACT Test</td>
<td>$ 40.00</td>
</tr>
<tr>
<td>College Level Examination Program Test Fee (CLEP)</td>
<td>$ 25.00</td>
</tr>
<tr>
<td>Community Counseling Clinic Client Fees (per client)</td>
<td></td>
</tr>
<tr>
<td>Level 1</td>
<td>$ 1.00</td>
</tr>
<tr>
<td>Level 2</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>Level 3</td>
<td>$ 10.00</td>
</tr>
<tr>
<td>Counseling Prep Comprehensive Exam (CPCE)</td>
<td>$ 40.00</td>
</tr>
<tr>
<td>Credit by Examination††</td>
<td>$ 20.00 per credit</td>
</tr>
<tr>
<td>Graduate student application fee</td>
<td>$ 30.00</td>
</tr>
<tr>
<td>Inoculation Fee:</td>
<td></td>
</tr>
<tr>
<td>Hepatitis series</td>
<td>$ 125.00</td>
</tr>
<tr>
<td>Measles, Mumps, Rubella</td>
<td>$ 50.00</td>
</tr>
<tr>
<td>Meningitis</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Tetanus</td>
<td>$ 15.00</td>
</tr>
<tr>
<td>Federal Background Check</td>
<td>$ 28.00</td>
</tr>
<tr>
<td>International Graduate Student Credential Evaluation Fee</td>
<td>$ 45.00</td>
</tr>
<tr>
<td>Payment Plan Enrollment Fee</td>
<td>$ 25.00</td>
</tr>
<tr>
<td>International Undergraduate Student Credential Evaluation Fee</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Late Application for Graduation Fee (after 3rd wk. of term)</td>
<td>$ 38.50</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>$ 30.00 per month</td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>$ 35.00</td>
</tr>
<tr>
<td>Late Class Add Fee (per course to be charged for each course added after the last published date to add a class)</td>
<td>$ 27.50 per course</td>
</tr>
<tr>
<td>MAT test</td>
<td>$ 75.00</td>
</tr>
<tr>
<td>Performance Music Fee</td>
<td>$ 75.00 per credit</td>
</tr>
<tr>
<td>Parking Permit</td>
<td>$ 78.00 per semester</td>
</tr>
<tr>
<td>Per day without permit</td>
<td>$ 5.00</td>
</tr>
<tr>
<td>Parking Permit, Summer only</td>
<td>$ 35.00</td>
</tr>
<tr>
<td>Peace Officer Training Academy Fee</td>
<td>$ 300.00 per semester</td>
</tr>
<tr>
<td>Physical Therapy Doctoral Acceptance Deposit</td>
<td>$ 250.00</td>
</tr>
<tr>
<td>Proficiency Examination††</td>
<td>$ 45.00 per course</td>
</tr>
<tr>
<td>Study-Abroad Fee</td>
<td></td>
</tr>
<tr>
<td>Level 1</td>
<td>$ 45.00 per semester</td>
</tr>
<tr>
<td>Level 2</td>
<td>$ 75.00 per semester</td>
</tr>
<tr>
<td>Level 3</td>
<td>$ 150.00 per semester</td>
</tr>
<tr>
<td>Technology/Laboratory Materials Fee</td>
<td></td>
</tr>
<tr>
<td>Level 1</td>
<td>$ 35.00 per course</td>
</tr>
<tr>
<td>Level 2</td>
<td>$ 50.00 per course</td>
</tr>
<tr>
<td>Level 3</td>
<td>$ 65.00 per course</td>
</tr>
<tr>
<td>Level 4</td>
<td>$ 187.00 per course</td>
</tr>
<tr>
<td>Level 7</td>
<td>$ 20.00 per course</td>
</tr>
<tr>
<td>Level 8</td>
<td>$ 85.00 per course</td>
</tr>
<tr>
<td>Level 9</td>
<td>$ 25.00 per course</td>
</tr>
<tr>
<td>Transfer Matriculation Fee</td>
<td>$ 25.00</td>
</tr>
<tr>
<td>Undergraduate Application Fee (first-time applicant)</td>
<td>$ 30.00</td>
</tr>
<tr>
<td>Former student returning</td>
<td>$ 0.00</td>
</tr>
<tr>
<td>Youngstown Early College (pre credit hour)</td>
<td>$ 96.00</td>
</tr>
<tr>
<td>Youngstown Early College (full time bulk rate, 12-16 hours)</td>
<td>$ 1,152.00</td>
</tr>
</tbody>
</table>

### SERVICE CHARGES

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Child Preschool Laboratory Fee</td>
<td>$ 150.00 per semester</td>
</tr>
<tr>
<td>Check Replacement Fee</td>
<td>$ 25.00</td>
</tr>
<tr>
<td>Computer-Based Placement Re-Test</td>
<td>$ 15.00 per test</td>
</tr>
</tbody>
</table>
For more information about library fines and policies, go to: http://www.maag.ysu.edu/service/circulation/fine_fee.html

**LIBRARY FINES**

<table>
<thead>
<tr>
<th>Patron Type</th>
<th>Material Type</th>
<th>Loan Period</th>
<th>No. of Renewals</th>
<th>Grace Period</th>
<th>Daily Fines</th>
<th>Overdue Charges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduates</td>
<td>Maag Books/Scores</td>
<td>1 Semester</td>
<td>0</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>CRC Books</td>
<td>1 Semester</td>
<td>0</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>MMC CDs</td>
<td>7 Days</td>
<td>0</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>MMC Videos</td>
<td>7 Days</td>
<td>0</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td>Graduates/ Faculty/Staff Retirees</td>
<td>Maag Books/Scores</td>
<td>1 Semester</td>
<td>2</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>CRC Books</td>
<td>1 Semester</td>
<td>2</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>MMC CDs</td>
<td>90 Days</td>
<td>3</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>MMC Videos</td>
<td>90 Days</td>
<td>3</td>
<td>14 Days</td>
<td>No Fines</td>
<td>15 Days Past Due: $10:00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td>Graduates/ Faculty/Staff Retirees</td>
<td>OhioLINK Books</td>
<td>21 Days</td>
<td>4</td>
<td>7 Days</td>
<td>$0.50/day Max $15.00</td>
<td>31 Days Past Due: $15.00 fine + $35.00 Processing fee + $75.00 Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>OhioLINK Books &amp; Bound Periodicals</td>
<td>7 Days</td>
<td>0</td>
<td>0 Days</td>
<td>$0.50/day Max $15.00</td>
<td>31 Days Past Due: $15.00 fine + $35.00 Processing fee + $75.00 Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>CRC Non Print</td>
<td>7 Days</td>
<td>3</td>
<td>7 Days</td>
<td>$0.50/day Max $15.00</td>
<td>31 Days Past Due: $15.00 fine + $35.00 Processing fee + $75.00 Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>MMC all others</td>
<td>3 Hours</td>
<td>0</td>
<td>0</td>
<td>$0.50/day Max $15.00</td>
<td>21 Days Past Due: $11.00 fine + $10.00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td>Reserves</td>
<td>3 Hours</td>
<td>0</td>
<td>0</td>
<td>$0.50/day Max $15.00</td>
<td>21 Days Past Due: $11.00 fine + $10.00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 Days</td>
<td>0</td>
<td>0</td>
<td>$0.50/day Max $15.00</td>
<td>21 Days Past Due: $11.00 fine + $10.00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 Days</td>
<td>0</td>
<td>0</td>
<td>$0.50/day Max $15.00</td>
<td>21 Days Past Due: $11.00 fine + $10.00 Processing fee + Item Replacement Cost</td>
</tr>
<tr>
<td></td>
<td></td>
<td>7 Days</td>
<td>0</td>
<td>0</td>
<td>$0.50/day Max $15.00</td>
<td>21 Days Past Due: $11.00 fine + $10.00 Processing fee + Item Replacement Cost</td>
</tr>
</tbody>
</table>

For more information about library fines and policies, go to: http://www.maag.ysu.edu/service/circulation/fine_fee.html

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††† Western Pennsylvania Advantage service area is defined as including the counties of Erie, Crawford, Mercer, Venango, Lawrence, Butler, Beaver, Allegheny

††† The Youngstown State University regional service area, for non-resident tuition surcharge purposes, is defined as including the counties of Chautauqua, New York; Armstrong, Clarion, Fayette, Forest, Greene, Indiana, Jefferson, Warren, Washington, and Westmoreland, Pennsylvania; and Brooke, Hancock, Marshall, and Ohio, West Virginia.

††† Credit by Examination—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.

†††† Proficiency Examination—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 on the transcript.

THE UNIVERSITY RESERVES THE RIGHT TO CHANGE ANY FEE WITHOUT NOTICE.
action. That check will then appear on your monthly bank statement as an Electronic Debit. If you do not wish to have your paper check converted to an ACH, you must present it in person, or select an alternative payment method (for instance, credit card).

A payment plan is also available that will allow you to spread your payments out over a longer period. Payment plan enrollment must be processed online and requires an initial payment at the time of enrollment. There is a fee for enrollment in the payment plan, and late payments are subject to late payment fee assessment.

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) 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 subsequent terms. 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.

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 by the 14th day to receive 100% refund or reduction of charges (see refund policy on page 26). All days of the week are counted, including weekends and holidays, to determine the 14th day. 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 MyYSU Portal (www.ysu.edu).

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.

The table found on the following two pages lists all fees, charges and fines for the current academic year. An explanation of each follows.

Tuition. The sum of the instructional fee, the general fee, and the information services fee constitutes tuition.

Instructional Fee. This fee is assessed all students each term. The rate is per academic semester hour of credit for one to 12 credits or for more than 16 credits; it is a flat rate for students registering for 12 to 16 credits during one term. Students registering for 17 or more credits pay the flat rate plus the per-credit rate for each credit over 16. This fee supplements the state subsidy and is a source of revenue for the University’s educational and general fund.

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.

General Fee. This fee is also assessed all students each term; the rate depends upon the number of credits registered for. This fee is for non-instructional services such as Kilcawley Center, intercollegiate athletics, intramural sports, performing artists and lecture programs, student government, and the Career Services Office.

Non-Resident Tuition Surcharges. As noted above, all students pay the instructional fee, the general fee, and the information services fee. Those students who are not legal residents of Ohio must pay a surcharge in addition. Students who are residents of the regional service area pay a lesser surcharge than do students who are legal residents of other states and/or areas. The regional service area includes the counties of Chautauqua, New York; Armstrong, Clarion, Fayette, Forest, Green, Indiana, Jefferson, Warren, Washington, and Westmoreland, Pennsylvania; and Brooke, Hancock, Marshall and Ohio, West Virginia. Students who are residents of the following western Pennsylvania counties pay a further reduced surcharge: Allegheny, Beaver, Butler, Crawford, Erie, Lawrence, Mercer and Venango.

Information Services Fee. This fee is charged to all students each term. It 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.

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

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.

Health and Physical Education Locker and Towel Fee. Students enrolled in a class requiring use of a basket, or towel service in Beeghly Physical Education Center or the Sports Complex do not pay a fee. Other authorized persons pay a Campus Recreation Locker and Towel fee each academic term. Loss of or damage to the lock or towel will result in assessment of a replacement charge.

Late-Add Fee. Late adds will be granted on an exceptional basis only and there will be a late-add fee assessed for each course added after the add deadline. This fee is nonrefundable and cannot be appealed.

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

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

Late Registration Fee. A fee is charged a currently enrolled student who fails to register for the next term at the assigned time and later registers at the time assigned new or returning students.

Parking Permit Fee. A permit to park in YSU parking facilities will be issued to students and employees of the University upon payment of the fee. The fee is for the academic term and 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. A daily fee is charged anyone without a permit who wishes to park in facilities designated for cash business. Persons other than employees and students who are on campus for a short period of time to conduct business may park in one of the visitors' lots if space is available. The parking permit fee is refundable only if the student returns the permit access card and current validation sticker prior to the end of the 100% tuition refund period (see Reduction/Refund on following page). If a student completely withdraws, the permit, access card and current validation sticker must be returned within five days of either the withdrawal date or the last date of the 100% tuition refund period—whichever is earlier—in order to obtain a refund for this fee.

Performance Music Fee. This fee is charged in addition to the regular tuition. It is assessed students taking music lessons and is applied on a per-credit basis.
Housing Charges. University housing is available for the academic year and summer terms. The academic year contract includes fall and spring terms. Charges are billed each semester. The residence contract includes room and full meal plan. In addition to the charge for service, a security deposit is required. Payment and refunds are as scheduled in the housing contract. Meal plans are also available for students who are not residents of University Housing.

Returned Check or Credit Card Charge. A charge is levied on anyone whose check 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 and/or charge within six days; and/or a second check/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.

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. While no charge is made for normal transcript processing requests issued by the Office of Records, there are charges for rush or overnight express requests. Transcripts will not be issued for anyone with outstanding debts owed to the University.

Fines

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 for detailed information.

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.

Reduction/Refund of Fees and 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 MyYSU 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.

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 (3 semesters). Appeals pertaining to terms beyond this one-year time limit will not be accepted. All applications for involuntary withdrawal must be documented, and are processed only by mail on forms provided by Student Accounts. Address such correspondence to the Fees and Charges Appeals Board, c/o Student Accounts, Youngstown State University, One University Plaza, Youngstown, OH 44555.

FINANCIAL AID AND SCHOLARSHIPS

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

All YSU applicants for admission or current YSU students seeking financial aid should apply no later than February 15 of the year in which aid is desired. For maximum consideration, students should apply online at www.ysu.edu/finaid. There you will find the links to the online:

1.) Free Application for Federal Student Aid (FAFSA) to apply for all federal and state aid and for need-based scholarships and grants.

2.) Youngstown State University Institutional Aid Application to apply for certain miscellaneous scholarships.

If students meet the February 15 priority filing date for financial aid consideration, they will receive a YSU financial aid offer by end of April. Prospective students are strongly encouraged to apply for financial aid as early as possible.

TYPES OF FINANCIAL AID

Scholarships (Gift Aid)

Scholarships are gift aid awarded to students on the basis of superior academic performance or talent, other criteria, and/or financial need. Scholarships do not have to be repaid. Amounts may vary depending on academic ability, financial need and/or the current state of funding or endowment support for the scholarship. Scholarship funds have been established at YSU by individuals, corporations, clubs, and religious and fraternal organizations. In addition, the Youngstown State University Foundation administers endowments which provide substantial funding for numerous scholarship programs at Youngstown State University, including the Scholarships for Excellence program.

Scholarship awards to Youngstown State University students are based upon the student's academic record, character, and/or financial need. Scholarships for entering freshmen are awarded on the basis of high school academic record, recommendation by high school administrators, scores on a standard college entrance examination, and/or class rank. Scholarship applicants are considered for all scholarships appropriate to their aims and interests.

To be considered for scholarships, students should complete all appropriate forms by February 15 of each year. To apply, contact the Office of Financial Aid and Scholarships or visit the YSU financial aid website at www.ysu.edu/finaid.

To be considered for scholarships that are need-based, students should file the Free Application for Federal Student Aid (FAFSA) so the Office of Financial Aid and Scholarships can determine a student's financial need.

In addition to completing Youngstown State University's Institutional Aid Application and the FAFSA, students also should check with their particular college or department to apply for academic-specific scholarships. Students and their parents are encouraged to check with their places of employment to find out if there are any scholarships provided to students or if they provide for fee remission. Check with local community resources for scholarships such as church organizations and the library to find out about scholarship opportunities. Another excellent resource is the World Wide Web at: www.fastweb.com or www.finaid.org. Web access is available for these purposes in the Office of Financial Aid and Scholarships.

For a searchable listing of all scholarships currently offered at Youngstown State University, visit www.ysu.edu/finaid. If web access is not readily available, be sure to read the current Financial Aid and Scholarships brochure for other detailed information on financial aid. You can find this brochure in the Office of Financial Aid and Scholarships, Meshel Hall, or you may call to request a brochure at 330-941-3505.

Grants-in-Aid (Gift Aid)

Grants-in-Aid are gift monies that do not have to be repaid. The amount of grant aid awarded is determined by the recipient's financial need and/or academic record and character.

A.) The Federal Pell Grant is a need-based federal grant provided to eligible undergraduate students pursuing a first bachelor's degree or associate's degree. File the FAFSA every year to be considered for this grant.

B.) The Federal Supplemental Educational Opportunity Grant (FSEOG) is a need-based grant funded by the federal government and awarded by YSU. Students who meet the eligibility requirements for the Federal Pell Grant receive primary consideration for this grant. File the FAFSA as early as possible after January 1 to be considered for this campus-based aid program.
C.) The Ohio College Opportunity Grant (OCOG) is awarded by the State of Ohio to full-time undergraduate students who are residents of Ohio and who are pursuing a first bachelor’s degree or associate’s degree. Eligibility is based on family income. File the FAFSA by October 1 of each year to be considered for this grant. At the time of publication, the budget for the state of Ohio has yet to be determined. Funding for the upcoming year is uncertain.

D.) Part-time Ohio College Opportunity Grant is awarded to students enrolled less than full-time who otherwise would have been eligible for an Ohio College Opportunity Grant had they been full-time. At the time of publication, the budget for the state of Ohio has yet to be determined. Funding for the upcoming year is uncertain.

E.) The Pennsylvania Higher Education Assistance Award (PHEAA) provides grants to Pennsylvanians who are YSU students. Students must be full-time or half-time undergraduates enrolled in an approved program of study requiring at least two years to complete. File the FAFSA by the appropriate PHEAA deadline date to be considered for this grant (May 1).

F.) The YSU Foundation PHEAA Supplemental Grant. Because of the legislative cap on Pennsylvania grants to Pennsylvania residents attending Ohio universities, YSU has initiated a supplemental grant program funded by YSU and the YSU Foundation. This grant will be automatically awarded to YSU students who are awarded and eligible to receive a PHEAA grant. The supplemental grant will be awarded in amounts up to 200% of the PHEAA grant, subject to availability of funds.

G.) The Martin Luther King Inner-City Achievement Award. Funded by the YSU Foundation, this award is available to graduates of Youngstown/Warren inner-city schools (Calvary Christian Academy, Cardinal Mooney, Chaney, East, Rayen, South, Ursuline, Wilson, Youngstown Christian School, John F. Kennedy, Warren G. Harding, and Warren Western Reserve). Also included are graduates of Campbell Memorial, Niles McKinley, Farrell, New Castle, Sharon and Struthers high schools. Need-based awards of up to $1500 per academic year are available to students who have financial need. Students must be admitted to the University in good standing or, if currently enrolled at YSU, must maintain a minimum cumulative grade point average of 2.5 and be registered for at least 6 credit hours. For priority consideration, complete the FAFSA by February 15 as funds are limited. (You must have completed FAFSA results to be considered.)

H.) The Youngstown State University Non-Traditional Student Grant-In-Aid is awarded to non-traditional students who are not eligible for other grant or scholarship assistance. In cases where students receive other aid, the total of the other aid and the amount of assistance awarded under this grant may not exceed the amount the student would have received from the Non-Traditional Grant alone. A non-traditional student is a person who is at least four years removed from formal education (high school or college) and at least 22 years old whose entire annual family income did not exceed $30,000 for the previous year, or a person whose family income was more than $30,000 for the previous year, but who has experienced a drastic reduction in family income for the current year. To be considered for this grant, file the FAFSA and complete YSU’s Institutional Aid Application by February 15.

I.) Veterans’ Administration Education Assistance. The Department of Veterans’ Affairs provides education assistance to veterans or current armed services personnel. Programs include contributory plans, rehabilitation benefits, work-study, and dependent/spousal benefits. Contact the Office of Financial Aid and Scholarships or phone toll-free 888-GI-BILL1 (888-442-4551).

J.) Bureau of Vocational Rehabilitation Awards are two programs funded by the Bureau of Vocational Rehabilitation in Ohio (BVR) and the Office of Vocational Rehabilitation in Pennsylvania (OVR) that provide grants for tuition, fees, and/or books for residents with disabilities. Eligibility is determined by each state’s Bureau.

K.) Ohio War Orphans is a grant for children of disabled or deceased U.S. Armed Forces veterans. There is a needs test and the student must be between 16 and 20 upon application for a grant. The grant provides 80% of tuition and fees. Phone 614-152-9528 or 1-888-833-1133.

L.) Ohio National Guard provides grants for tuition to members who are full-time undergraduates, paying 100% of instructional and general fees. Apply through the National Guard, and pay close attention to deadlines. Phone 614-336-7032.

M.) Graduate Assistant Fee Remission is for graduate assistants who are graduate students working toward a degree who are employed by the University through the School of Graduate Studies and Research. The stipend or salary, starts at $7,500 per year. Graduate assistants are also entitled to remission of tuition, including, where applicable, the non-resident tuition surcharge.

Employment (Self-help Aid)

To help pay for educational and living costs, students may contact the Office of Student Life for on-campus student employment. Any student currently enrolled and in good standing may apply for on-campus employment. All on-campus opportunities are posted in Student Life, outside the Office of Financial Aid and Scholarships on the second floor of Meshel Hall, and on the YSU website at www.ysu.edu/Studentlife. Students are encouraged to check regularly for open positions.

The Federal Work-Study Program is a need-based program which provides funds for eligible students.
This program also helps students with educational expenses and living costs, as work-study students receive paychecks for hours worked. To receive maximum consideration for this campus-based program, file the FAFSA as soon as possible after January 1 but not later than February 15 of each year. To the question on the FAFSA “Are you interested in being considered for work-study or student loans?” you should answer “Both work-study and student loans.”

Loans (Self-help Aid)

Loans are a form of financial aid for many students to help meet educational expenses. Keep in mind that loans accrue interest and must be repaid.

A.) The Federal Perkins Loan is a need-based federal loan (with a 5% fixed interest rate) awarded by Youngstown State. Eligible undergraduate and graduate students attending at least half-time may be considered for this loan. This is a subsidized loan, which means the government is responsible for the interest during the student’s enrollment of at least half-time; for the grace period after the student is no longer enrolled half-time; or during deferment periods. After the nine-month grace period, the student is responsible for the interest. For priority consideration for this campus-based program, file the FAFSA as early as possible after January 1 but not later than February 15 of each year. To the question on the FAFSA “Are you interested in being considered for work-study or student loans?” you should answer “Both work-study and student loans.”

B.) The Federal Subsidized Stafford Loan is a need-based federal loan awarded to students who demonstrate financial need based on the information provided on the FAFSA. Undergraduates, graduates, and professional students attending at least half-time may be considered for this loan. “Subsidized” means the government is responsible for the interest that is accruing during at least half-time enrollment; during the six months’ grace period after the student stops attending school at least half-time; or during periods of deferment. The student is responsible for the interest at all other times. To be considered for this loan, file the FAFSA. To the question on the FAFSA “Are you interested in being considered for work-study or student loans?” you should answer “Both work-study and student loans.”

C.) The Federal Unsubsidized Stafford Loan is a non-need based loan that is available to all students regardless of income. Undergraduate, graduate, and professional students attending at least half-time may be considered for this loan. “Unsubsidized” means that the government is not responsible for the interest at any period of time. Borrowers may choose to make interest payments while in school or borrowers may defer (accumulate) the interest until repayment. To be considered, file the FAFSA. To the question on the FAFSA “Are you interested in being considered for work-study or student loans?” you should answer “Both work-study and student loans.”

D.) The Federal Parent Loan for Undergraduate Students (PLUS loan) is available to the parents of dependent students. These loans are based on educational costs and cannot exceed the cost of attendance less other aid. Since these loans are not subsidized, the parent borrower must repay the amount borrowed plus the interest.

E.) Grad PLUS Loans are federal loans that graduate and professional students with good credit history may borrow to help pay educational expenses. Half-time enrollment is a requirement. Since these loans are not subsidized, the borrower must repay the amount borrowed plus the interest.

Part-time Students

Part-time aid is available for students. The amount of part-time aid and the type of aid available vary. Be sure to file the FAFSA and YSU’s Institutional Aid Application by February 15 each year for maximum consideration. Also, check with the Office of Financial Aid and Scholarships to find out how part-time attendance affects your financial aid.

Financial Aid: Helpful Hints and Important Tips

— Make sure to have all applications in by their priority deadlines. Youngstown State University’s priority deadline to be considered for campus-based aid, scholarships, and some grants is February 15 each year. If you miss the deadline date, you may reduce or eliminate your chances to be considered for every type of financial aid that you otherwise would have been awarded.

— If you are selected for verification/documentation, you are required to submit certain documentation to YSU. Be sure to submit this requested documentation as soon as possible so that the processing of your financial aid is not delayed. If you are late in submitting this requested documentation, you might not receive every type of financial aid that you otherwise would have been awarded, even if you applied on time.

— If you missed application deadlines, you should still apply. Late funding may become available.

— Check with your specific department or college to find out if there are any academic-specific scholarships for which you may apply.

— Keep copies of all your tax forms and W-2 forms each year. Be sure to keep copies of all forms and documents submitted to the Office of Financial Aid and Scholarships.

— Check with the Office of Financial Aid and Scholarships to determine the status of your financial aid processing. Do not wait until you receive your bill.

— Remember to apply on time each year!

— If you or your family have unusual circum-
stances that have occurred during the academic year, such as unusual medical expenses or loss in income, check with a counselor in the Office of Financial Aid and Scholarships to discuss your situation.

— Contact the Office of Student Accounts at 330-941-3133 to find out about convenient payment plans to help pay for tuition and fees.

— Contact the Office of Financial Aid and Scholarships at 330-941-3505 if you have questions. Mailing address: Youngstown State University, Office of Financial Aid and Scholarships, One University Plaza, Youngstown Ohio 44555-3505. Email: ysufinaid@ysu.edu. Web address: www.ysu.edu/finaid.

Some Commonly Used Financial Aid Terms:

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

Expected Family Contribution (EFC): The amount that you and your family will be expected to contribute toward your educational expenses, as determined by the federal government from the information on your FAFSA. To obtain a booklet that explains the formula used to determine your EFC, call 1-800-4-FED-AID.

FAFSA (Free Application for Federal Student Aid): The form that you must complete so that the federal processor can determine your EFC and YSU can determine your financial need. Must file if you are interested in loans, grants and certain scholarships.

Financial Aid: All forms of financial assistance, including scholarships and grants (gift aid) and work programs and loans (self-help aid).

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

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

Grant: Gift aid awarded to a student on the basis of financial need and sometimes academic performance and character. Does not have to be paid back.

Scholarship: Gift aid awarded to a student on the basis of academic performance, talent, other criteria, and/or financial need.

Subsidized: A subsidized loan is a need-based loan in which the government pays the interest while the student is enrolled at least half-time; during the grace period after the student stops attending at least half-time; and during periods of deferment (postponement of repayment).

Verification/Documentation: The process by which Youngstown State University confirms the accuracy of the information supplied on a percentage of FAFSA’s each year as required by federal regulation. If you are selected for verification/documentation, you and your family will be requested to supply the Office of Financial Aid and Scholarships with additional information and copies of documents.

Unsubsidized: An unsubsidized loan is not based on financial need. The borrower is responsible for all interest which accrues during in-school, grace, and/or any applicable deferment periods.

Standards of Satisfactory Academic Progress

Federal regulations require that Youngstown State University review the academic progress of students annually who apply for and/or receive federal financial aid, whether they are previous aid recipients or not. The purpose of this review process is to measure whether a student is making satisfactory progress toward his or her educational goals. The following federal programs are affected when a student is not in compliance with the Satisfactory Academic Progress Policy:

Federal Pell Grant
Academic Competitiveness Grant
National SMART Grant
Federal Perkins Loan
Federal Supplemental Educational Opportunity Grant (SEOG)
Federal Work-Study Program
Federal Stafford Loans (subsidized and unsubsidized)
Parent Loans for Undergraduate Students (PLUS)
Grad PLUS Loans

State grant programs such as the Ohio College Opportunity Grant (OCOG) and the Pennsylvania Higher Education Assistance grant (PHEAA) are not governed by the federal Standards of Satisfactory Academic Progress but rather by the respective state.

Youngstown State University’s satisfactory academic progress requirements for undergraduate and graduate students include the following three components:

1.) Grade Point Average (GPA)

In order to maintain federal financial aid eligibility, undergraduate students at Youngstown State University must maintain a minimum cumulative 2.00 GPA if over 49 credit hours, a minimum cumulative 1.75 GPA if 32 to 49 credit hours; graduate students must maintain a 3.00 GPA. The following grades will count toward the calculation: A, B, C, D, and F. Credit hours that negatively impact Satisfactory Academic Progress include F-Failed, NC-no credit, AU-audit, I-incomplete, W-withdrawal. For incompletes, the credit hours apply to the term the student was enrolled, not the term the student was making up the incomplete. Students academically suspended cannot receive federal aid during the period of suspension.

2.) Percentage Completion
Students must complete an associate or bachelor's degree, or receive a diploma unless the financial aid eligibility will be suspended unless the time frame is extended with an appeal accompanied by an Academic Advisor Evaluation. Non-Degree Students cannot receive any federal aid until they become degree-seeking students.

Transfer and Transient Students

Transfer students will be eligible for federal aid through the spring semester of the academic year they begin at Youngstown State University. Transfer students will be evaluated for Standards of Satisfactory Academic Progress annually. Transfer hours will be included in the number of hours earned and attempted, but only YSU grades enter into the GPA calculation.

YSU transient students must submit a Consortium Agreement and a Verification of Enrollment for a determination of financial aid eligibility, which can be obtained from the Office of Financial Aid and Scholarships. Courses that transfer to YSU will be included in the hours-attempted calculation.

Non-Degree Students (undergraduate, post-undergraduate, and graduate)

A student must be enrolled in a degree program to receive federal financial aid. If students are cited for Standards of Satisfactory Academic Progress due to their status as non-degree students, they must complete an appeal and contact their college to complete an Academic Advisor Evaluation. Non-degree students cannot receive any federal aid until they become degree-seeking students.

The Appeal Process—Reinstatement of Federal Aid

If a student is non-compliant, he/she must appeal the denial of financial aid by submitting an appeal form that explains the circumstances. Supporting documentation may be required. Appeals will be evaluated by the Academic Progress Appeal Committee, which will respond in writing within 30 days. The decision made by the Appeal Committee will be final. Students who consistently abuse the Academic Progress policy will be denied eligibility for federal financial aid.

Students who do not appeal, or who are denied by the Committee, will not be eligible for federal financial aid programs for the award year, until their academic record is once again in compliance with the Standards of Satisfactory Academic Process. To attain compliance, students must attend school without federal financial assistance while clearing their satisfactory academic progress. When reinstatement is granted, a student may be considered for those financial aid funds available at that time. Contact the Office of Financial Aid and Scholarships for an Appeal Form and for additional information.

Financial Aid Refund Policy

The refunding of financial aid funds to the appropriate funding source corresponds to federal regulations and YSU's refund policy regarding student fees upon withdrawal from class(es). This policy is explained in greater detail on p. 26.

Students should note that effective Fall 2000, Youngstown State University implemented the new Return of Title IV Funds regulations as put forth in the Higher Education Amendments of 1998. These regulations stipulate a specific formula for calculating the return of Federal Pell, Academic Competitiveness Grant, National SMART Grant, Federal Supplemental Educational Opportunity Grant (SEOG), Federal Perkins Loans, Federal Stafford Loans and Federal PLUS Loans (but not Federal Work Study) when a student completely withdraws from school before completing 60% of the semester. This recalculation may result in the student owing a balance to Youngstown State University and/or the Federal Department of Education.

SCHOLARSHIPS FOR EXCELLENCE

Please check with the Office of Financial Aid and Scholarships for current information.

Scholarships for Excellence are awarded by the University and largely funded by the YSU Foundation. The YSU Foundation, with an endowment of over $140 million, is committed to providing this "edge of excellence" for the University, providing more than $4 million in scholarship assistance annually for YSU students. These Scholarships for Excellence are awarded to eligible new high school graduates, transfer students, and current students. Current and transfer students will automatically be considered for these scholarships. In addition,
incoming freshmen should apply for admission by **February 15** to be considered for these scholarships automatically.

**Leslie H. Cochran University Scholars.** These are four-year, full-ride academic scholarships which require a separate application. These scholarships are awarded annually to as many as 40 incoming freshmen based on minimum criteria of an ACT of 28 or SAT of 1340 and upper 15% ranking in the student’s high school class. Must attend full-time and maintain at least a 3.5 cumulative GPA to renew. A separate application is required for the Leslie H. Cochran Scholarship.

**Trustees’ Scholarships:** These are $4,500, four-year scholarships awarded to incoming high school valedictorians. Must attend full-time and maintain at least a 3.5 cumulative GPA to renew.

**President’s Scholarships:** These are $2,500, four-year scholarships awarded to the upper 10% of high school class with a minimum ACT of 27 or SAT of 1220. Must attend full-time and maintain a 3.5 cumulative GPA to renew.

**Deans’ Scholarships:** These are $2,000, four-year scholarships awarded to the upper 15% of the high school graduating class with a minimum ACT of 25 or SAT of 1140. Must attend full-time and maintain a 3.5 cumulative GPA to renew.

**Red and White Scholarship:** These are $1,500, four-year scholarships awarded to 22 ACT/1030 SAT and 3.0 high school cumulative GPA. Renewed each year up to a maximum of four years if the student maintains a 3.0 GPA and completes a minimum of 24 semester hours per year.

**Transfer-Student Scholarships:** Available to students who have completed at least 24 transferable credit hours. Those who transfer to YSU with a GPA of 3.50 or higher qualify for an award of $1,500 per academic year; those with a GPA between 3.00 and 3.49 will receive $1,000. Renewable for three years if the recipient maintains a 3.5 GPA for the $1,500 award and a 3.0 for the $1,000 award. Awards are available for part-time students (at least 6 hours per term) on a pro-rated basis. Students should apply for admission by **February 15** to be considered for these scholarships automatically.

**YSU Advantage Scholarships:** Awarded to associate degree graduates from Jefferson Community College, Cuyahoga Community College, Stark State College of Technology, Lorain County Community College, and Kent State University regional campuses. Those who transfer to YSU must have an associate degree from one of the aforementioned target colleges with a minimum of 2.5 GPA to qualify for this one-year award of $1,100. To be considered for this award, students must apply for admission to Youngstown State University and submit transcripts documenting associate degree completion. Students are encouraged to apply as early as possible; funds are limited and will be awarded on a first-come, first-served basis.

**Academic Achievement Award:** These are $500, three-year scholarships awarded to continuing YSU students with a minimum criteria of 24 hours completed and a cumulative GPA of 3.5. Must attend at least half-time and maintain a 3.5 cumulative GPA to renew. These scholarships are based on the level of scholarship funding and the number of eligible students. Students are automatically considered for this award.

**OTHER YSU SCHOLARSHIPS**

For a listing of scholarship opportunities currently available to YSU students, go to [www.ysu.edu/finaid](http://www.ysu.edu/finaid). Under “Tools to Search and Estimate,” click on “Scholarship Search” for a display of over 460 scholarships.

**ACADEMIC POLICIES AND PROCEDURES**

**PLACEMENT TESTS**

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

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

**Composition Placement Test and COMPASS Reading Test**

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

Students placing into the developmental courses Reading and Study Skills (RSS) 1510, English (ENGL) 1539, and/or ENGL 1540 must complete the specified coursework within their first 36 semester hours. Otherwise, the student will be limited to enrolling
only for those developmental courses until they are completed successfully.

Conditionally admitted students placing into RSS 1510B must take that course in their first semester. Conditionally admitted students placing into RSS 1510A, ENGL 1539, or ENGL 1540 must take these courses within their first 20 semester hours.

Students directed to enroll in ENGL 1539, ENGL 1540, and/or RSS 1510A or 1510B must do so. The student may not withdraw from these courses unless he or she is making a complete withdrawal from the University.

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

Please note that credit hours from ENGL 1509, ENGL 1512, ENGL 1539, ENGL 1540, RSS 1510A and RSS 1510B will not count toward a degree.

COMPASS Math Test

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

Please note that credit hours from developmental MATH 1500, 1501, 1502, 1503, 1504, and 1507 will not count toward a degree.

For more information regarding math coursework, visit the Department of Mathematics and Statistics’ website at http://class.ysu.edu/~math/. For a sample math placement test, visit http://www.act.org/compass/sample/math.html.

English Composition Requirement

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

Foreign Language Placement Test

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

Students who have had some high school or college-level language study may enroll in any 1550 elementary foreign language course without taking the FLPT.

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

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

REGISTRATION

All YSU class registration takes place online through the MyYSU Portal (http://my.ysu.edu). Registration day and time are determined by the student classification. (Registration dates and appointment times for current students are published on the MyYSU Portal.)

Registration must be concluded no later than the date published for the particular term. All significant dates for each term are published in the front of this Bulletin and on the YSU website.

Photo Identification Card. The Office of the Registrar 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. The student must report the loss or theft of his or her card to the YSU Police. 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) to the Office of Student Accounts 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.

Advisement

The Office of the Registrar provides instructions for advisement and registration prior to registration.

All students are urged to consult with advisors in their major area. Each department or college has a procedure for either assigning an advisor to a student or having the student select an advisor. Advisement is required for the following students:

1. Freshmen (with fewer than 32 hours of credit).
2. Post-Secondary Enrollment Option/Early Admission Options Program students.
3. Any student not in good standing.
4. First-semester transfer students.
5. All former students returning to the University.
6. Athletes

The responsibility for fulfilling all requirements
resists ultimately upon the student; the advisors provide assistance in that process. Students may use the online Schedule of Classes to determine the specific classes offered in a particular term. For information about future offerings or when a particular course will be offered again, consult the appropriate department.

Change of Registration

Registered students may change their registration by accessing the registration functions through the MyYSU Portal (http://my.ysu.edu). (Also see “Reduction/Refund of Fees” section). Students should consult their advisors prior to changing their schedules. In general, each student who needs an advisor’s approval for registration must also have an advisor’s approval for add/drop (change of registration). However, advisors’ approval is not required for (1) withdrawing from a course(s), (2) changing sections of a course, or (3) changing physical activity courses.

A registered student may add an additional course through the change-of-registration procedure until the last day to add a class as published in the academic calendar (see inside front cover, p. i of this Bulletin).

Withdrawal from a course must be accomplished through the change-of-registration procedure. If a student withdraws from one or more courses during the full-refund period (or the end of the first week of the summer term), no entry will be made on the student’s permanent record for the course(s) dropped. Administrative change(s) of registration may occur if a student is improperly enrolled in any course or has registered for more hours than permitted.

Students who wish to completely withdraw from the University should consult the appropriate section in this Bulletin.

Cancellation of Registration

A student’s registration may be cancelled for any of the following reasons:

1. Academic suspension for the previous term.
2. Disciplinary action against the student.
3. Insufficient class enrollment.
4. Failure to meet admission or prerequisite requirements.
5. Failure to satisfy past-due financial obligations to the University.

CREDIT HOURS/CLASS STANDING/ MAJORS

The class hour is a weekly 50-minute class period and is the basic unit of instruction. The term “semester hour” (s.h.) signifies one class hour a week carried for one 15-week semester (or the equivalent in a summer term or flexibly scheduled class). A semester hour of credit is the amount of credit given for one semester hour successfully completed. Each semester hour of credit represents an average of three hours of study and instruction every week through the term.

Maximum/Minimum Credit-Hour Value

Registration is not permitted for less than the approved credit hour value of any course as listed in the catalog. Students may not register for more than the approved credit-hour value of a course.

Variable Credit Hours

Certain courses have variable credit hours. A student wishing to register for such a course may do so only after consulting with the department offering the course to determine the number of hours for which to register.

Student Load

The semester hours of credit a student carries per term depend on the degree sought and on the curriculum being followed. A minimum of 124 semester hours must be satisfactorily completed to earn a baccalaureate degree; a minimum of 64 semester hours for an associate degree. Students expecting to complete a bachelor’s degree in four years or an associate degree in two years should average 16 credits per term. Students interested in taking 21 credit hours or more per term must seek approval from the dean of their college.

Full-time Status

A full-time undergraduate student is one carrying 12 or more hours for credit per term.

Academic Classification

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

Freshman.........................0-31 semester hours of credit
Sophomore.....................32-62 semester hours of credit
Junior.........................63-93 semester hours of credit
Senior.......................94 or more semester hours of credit

For purposes of satisfying course prerequisites, the term “senior standing” may be defined by reference to the specified curricula of a given school or college, if it provides detailed programs leading to the attainment of a degree. A student who has completed a four-year degree and who continues undergraduate enrollment is classified as post-baccalaureate.

Majors

Declaring or Changing a Major

A student may enter the University as an undeclared major.

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

In order to change or declare a major, the student must fill out a form from the department of the desired major. The form will be forwarded to the
Office of Records.

Students who need help selecting a major should contact an academic advisor, the academic department, or the Office of Career Services for assistance with academic and career planning.

Additional Majors and Degrees

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

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

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

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

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

Minors

For information about minors, please see p. 46.

Credit from Professional Schools

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

1. All general University requirements.
2. Completion of major.
3. Completion of minor (if required).
4. 54 s.h. of upper-division coursework (3700-4800-Level).

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

The policy above does not apply to students admitted in the BS/MD Integrated Program of Youngstown State University and the Northeastern Ohio Universities Colleges of Medicine and Pharmacy (NEOUCOM). However, credit of up to 13 s.h. may be granted toward the completion of the B.S. degree to those students who have participated in the 6th year Human Values in Medicine Programs of NEOUCOM.

Undergraduate Preparation for Post-Baccalaureate Degrees

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

Requirements for Enrolled Nonimmigrant International Students

In accordance with federal regulations, F-1 students may not be employed on campus for more than 20 hours per week while school is in session. Furthermore, F-1 students are required to “pursue a full course of study,” which for undergraduate students is defined as a minimum of twelve credit hours each semester. In order to avoid being de-registered from
courses and thus violating nonimmigrant status, it is essential that international students pay their YSU tuition and other fees, including health insurance (see below), in full at the beginning of each semester.

During international student orientation, results of any required placement tests in math or English language are coordinated with testing and academic areas to assist students who may need to further improve proficiencies for academic success.

The Center for International Studies and Programs can provide advice on maintaining nonimmigrant status, authorization for a reduced course load, and obtaining additional employment authorization for unforeseen economic hardship or practical training. For more information, see Center for International Studies and Programs on p. 74.

International Student Health Insurance

Enrollment in YSU's student health insurance plan is mandatory for all international students (F and J status) and for their nonimmigrant dependents.

An exception to this requirement is granted only to:

1. students who have comprehensive group health insurance coverage through a parent or spouse’s U.S. employer OR
2. students whose sponsorship by the U.S. government, the student’s home government, or a U.S.-recognized international organization includes comprehensive health insurance.

To request a waiver from enrollment in the YSU international student insurance plan, students must, by the end of the first week of classes each semester:

Submit a completed YSU International Student Health Insurance Waiver Request Form to the Center for International Studies and Programs with proof of insurance (including confirmation of coverage dates and a description of covered expenses and exclusions) through a qualifying relative's employer or qualified sponsor.

ATHLETIC ELIGIBILITY

The Athletic Eligibility Committee is responsible for the athletic eligibility certification for Youngstown State University with respect to academic “standards of progress” for current student athletes and incoming students in compliance with (NCAA) National Collegiate Athletic Association’s regulations.

COURSES

Prerequisites

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

Repetition of Courses

A student may repeat a course once, unless otherwise stipulated in the course description or unless an additional repetition is authorized by the student's academic dean. If the course is a prerequisite to another course, the repetition must be successfully completed before the other course is taken. Both the original course and the repeated course must be taken at YSU. Transfer, study abroad, and/or transient courses are not eligible to be used as a repetition. If the student has received credit for a more advanced course in the same subject, a repetition is treated merely as another course, along with the first, in calculating the point average, unless the student secures an approved repetition form for recalculation of point average from the dean of the college in which the student is enrolled. (See Recalculation of Point Average.) A course repeated, however, may be counted only once as credit toward a student’s total academic hours for graduation.

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

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

Closed Classes

Departments set limits to the number of students that can be accommodated in each section. During the registration period or the period for adding courses, many classes become filled. These classes are called “closed,” which means that no more students will be admitted to them. Only the chair of the department offering the course can admit a student to a closed class or reopen a closed class.

Audited Courses

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

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

Conference Courses

Conference work is available only in exceptional cases and if the academic advisor considers conference work essential. You must obtain the required approval(s) and complete the registration on-line.

Conference courses have the following restrictions:
1. Permission is limited to seniors with a 3.00 average. Exceptions must be approved by the dean of the college in which the student is enrolled.
2. The course must be given by a full-time faculty member.
3. A brief description of the plan of procedure must be given by the full-time faculty member.
4. Must have approval from the department concerned and the dean of the school in which the course is offered.

Graduate Courses for Undergraduates

An undergraduate student who has senior standing and an unrecalculated grade-point average of at least 2.7, may enroll in 6900 or higher level graduate courses, provided such enrollment does not cause the total schedule for the term to exceed 12 semester hours. Before registering for courses the student must have the approval of the student's advisor in the program where the credit will be applied, the course instructor, and the dean of Graduate Studies and Research. The credit earned may be used for graduate credit at YSU only after the student is admitted to the School of Graduate Studies and Research and the credit is accepted by the department in which the student continues graduate work. (Such coursework cannot count toward fulfillment of the requirements for a bachelor's degree.) The maximum amount of such credit that will be accepted at Youngstown State University is nine hours.

TRANSPORT STUDENT AUTHORIZATION

Current YSU students desiring to attend another institution as transient students must complete and submit the Transient Student Authorization form, available from the dean of the college in which they are enrolled. Instructions are on the form. To be certain the transient class is applicable to the degree, the TSA form must be completed prior to taking the course. If the form is completed after the course is taken, applicability cannot be guaranteed.

To receive credit for approved coursework, the student must have received a grade of "C" or better and must attend Youngstown State University the semester following the completion of the transient term. It is the student's responsibility to have an official transcript sent from the other institution to the YSU Office of Records.

COMPLETE WITHDRAWAL FROM THE UNIVERSITY

Procedure: The student who wishes to withdraw from all courses in a particular term must access the registration system on the MyYSU Portal or come to the Office of the Registrar. Any student receiving Title IV financial aid should seek advisement from the Office of Financial Aid prior to processing a complete withdrawal. A complete withdrawal may be executed before classes or after the term starts. The student should consult the MyYSU Portal for deadlines.

Eligibility for future registrations:

1. A new applicant who withdraws from all courses prior to the first day of the term will not receive notice for future registrations unless the person requests that the Office of Undergraduate Admissions defer the application to a future term.
2. A former YSU student who withdraws from all courses prior to the first day of the term will not receive notice for future registrations unless the person requests that the Office of Records defer the application to a future term.
3. A current undergraduate student withdrawing on or after the first day of the term will receive notice of future registrations for one academic year.

HONORABLE WITHDRAWAL

On occasion, a student voluntarily withdrawing from the University may need a letter stating the conditions of her or his withdrawal.

If a statement of honorable withdrawal is needed, the dean of the appropriate college or other appropriate offices (i.e., University Discipline Officer) will furnish one, provided the student is of good character, has a satisfactory record of conduct, has no financial obligations to the University, and is withdrawing voluntarily for acceptable reasons; and provided that the student, if withdrawing during a term, follows the official procedure for a change of registration.

GRADING SYSTEM

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

The grade of A represents exceptional work in which the student shows that he or she has firmly grasped and achieved the objectives of the course.

The grade of B indicates very good work and considerable grasp of the essentials of the course.

The grade of C indicates good work and a usable grasp of the essentials of the course.

The grade of D indicates a definite, but not necessarily coherent, knowledge of the course.

The grade of F indicates that the student has not achieved even a minimum grasp of the essentials of the course. This grade can also result from failure to withdraw officially from a course (see Change of
Registration and Refund of Fees Upon Withdrawal).

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 (Incomplete) after the term has ended and grades have been recorded. A written explanation of the reason for the I and a date (which must be within one year) by which all course requirements will be completed 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 one year, the I automatically converts to an F, unless the student received the I because of being called to active military duty. 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. If graduation occurs within this one-year time period and a grade change hasn’t occurred, the Incomplete grade will be converted to an F before graduation.

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.

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.

W represents a withdrawal properly processed at any time from the end of the full-refund period through the last day to withdraw with a W (as published in the Academic Calendar for each semester). 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. 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.

When withdrawals change a student's status (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.

The distribution of achievement levels, and therefore of grades, in a large unselected group of students generally follows the normal frequency curve, in which 5% to 10% are A's, 20% to 25% B's, 40% C's, 20% to 25% D's, and 5% to 10% F's. However, since it is likely that substantial variation from the normal will occur in individual classes, the instructor does not use the “curve” as a standard to be imposed, but only as a model against which the instructor may compare each particular class, using his or her own judgment on the basis of professional standards.

Instructors may use plus and minus modifications of the grades, but they are not recorded or used in calculating the point average.

The Point Average and Scholastic Standing

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

For determining this, every grade has a quality point value for each semester hour it represents, as follows: A, four quality points; B, three points; C, two points; D, one point; F, zero points. For example, an A in a three-hour course is worth 12 quality points; a D in a four-hour course, four points; and an F in any course, zero points. To find the point average, the total number of quality points earned is divided by the total GPA hours. Thus, a student who earns 16 hours and 40 quality points has a point index of 2.50. Only grades of A, B, C, D, and F are included in the calculation of the point average.

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† The definition of competency-based instruction is to be provided by the instructor responsible for the course. Competency-based courses are so designated in the Schedule of Classes.
Grading Options

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

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

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

Audit (AU)

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

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

Credit/No-Credit (CR/NC)

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

Credit/No-Credit (CR/NC) (Student Option)

To encourage students to experiment with courses outside their major field of concentration, a credit/no-credit policy exists within the following guidelines.

Youngstown State University students who have completed at least 15 semester hours of credit and have a grade point average of 2.00 or better, or transfer students admitted unconditionally who have at least 30 semester hours of transfer credit, may elect to take a course for credit/no-credit.

The grade recorded for the student is not a letter grade, but either CR (credit) or NC (no-credit). If a student who has opted for CR/NC earns an A, B, or C in the class, the grade officially assigned is CR; otherwise it is NC. In either case, the grade point average is not affected.

This option may be elected for a maximum of twelve (12) semester hours for the baccalaureate degree or six (6) semester hours for the associate degree. Courses offered only under the CR/NC option (by department designation) do not count as a student-elected credit/no credit class. Students are restricted to taking one CR/NC course per fall and spring semester and one CR/NC course per non-overlapping summer term.

Courses taken under the CR/NC option may not be counted toward a student's major or minor. Students should confer with their advisors prior to electing the CR/NC option.

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

Changing of Grading Options

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

Excluding Older Grades (Statute of Limitations)

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

Excluded course credit (including transfer credit) will not count toward the total hours required for graduation. However, courses passed may fulfill basic curriculum requirements and may satisfy prerequisites for higher courses where applicable. Courses excluded from the calculation may be taken again and repeated once without infringing upon repeat privileges specified in catalog course descriptions. Courses excluded are not subject to credit by examination. A student whose petition has been approved is ineligible for graduation honors. Only one petition from each student may be approved. Students may not petition to exclude older grades after a degree has been conferred.

Grade Reports

Final grades are available through the MyYSU Portal (http://my.ysu.edu). Students are notified by e-mail when end-of-term grade processing has been completed.

Grade Changes

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

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

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

Credit by Examination — Departmental

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

Recalculation of Point Average

A current undergraduate student may wish to improve his or her cumulative point average by repeating a course in which a grade of 'D' or 'F' was earned. In order to recalculate the cumulative point average, the repetition must be consistent with the policy on repetition of courses, and the student must initiate the recalculation process with the approval of his or her advisor (or the dean, if it is a second repetition). Although courses are not deleted from the permanent record, the record is adjusted to reflect the inclusion of only the last grade obtained. For the examination fee, see “Fees and Expenses”. Information on courses for which credit by examination is possible may be obtained from the student's academic dean or the Office of Testing. Registration for departmental tests is done through the specific department.

Proficiency in English and Grading

The student's ability to express himself or herself in English is the concern not of the Department of English alone, but of every member of the University faculty. Inadequate competence in English is to be regarded as a reason for lowering a student's grade in any course in the University.

Absence from Classes and Examinations

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

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

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

GRADE REQUIREMENTS

Four categories of academic standing are established: Good Standing, Warning, Probation and Suspension. These are intended to signify a student's progress toward graduation or to provide an opportunity for making improvements and achieving academic success.

"Warning" and "Probation" indicate that grade standards consistent with graduation requirements are not being met. An advisor's approval of course load is required prior to continuing studies at the University.

"Suspension" means that a student is separated from the University for a period of time.

Recognizing that the transition from high school to college may be a difficult one, the University has set the minimum levels of academic achievement during the student's first year below the level required for graduation. Academic standing is based on the total earned hours (TEH) completed, including accepted transfer hours. The point averages (PA) required for good standing are as follows:

<table>
<thead>
<tr>
<th>Required</th>
<th>TEH</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1-31</td>
<td>1.75</td>
</tr>
<tr>
<td></td>
<td>32+</td>
<td>2.00</td>
</tr>
</tbody>
</table>

A student whose point average falls below the specified average for the number of credit hours achieved will be given a warning.

A student who has been on warning and who fails to bring the average up to the minimum by the end of the following term will be placed on probation for the next term. A probationary student who has failed to bring the average up to the minimum by the end of the probationary term will be suspended; however, a student who makes substantial improvement during a probationary term and averages at least 2.00 for that term will be continued on probation even though
the student’s cumulative average does not reach the desirable minimum.

A student on warning is permitted to participate in University activities.

A second suspension will have a duration of at least one full year before reinstatement on probation. Students should not expect to be reinstated after two suspensions unless the dean agrees that extraordinary conditions or circumstances have occurred. Additional suspensions will have durations of at least two years.

Reinstatement after any suspension is determined by the dean (or designee) of the college from which the student was suspended, or, if the student wishes to change colleges, by the dean of the new college. Exceptions to the suspension policy may be granted by the dean.

Transfer students admitted in good standing or on probation must meet those point-average requirements indicated for their total hours, including transfer hours accepted by Youngstown State University.

TRANSCRIPTS

The official transcript is a record of all coursework taken at Youngstown State University. Transcripts may be ordered only by the student. Transcripts may be ordered in person at the registrar’s counter in Meshel Hall, by mail, or by fax. Mail and fax requests should be sent to the Office of Records and should include the student’s name, any former name(s), Social Security or Banner ID number, dates of attendance, day-time phone number and written signature. Students are advised that most graduate and professional schools and many employers accept transcripts only if sent directly by the University. Photo identification is required when ordering or picking up the transcript in person. Transcripts will be released only for those students who do not currently have a financial obligation to the University.

A transcript indicates the academic status of a student. Disciplinary action is not shown on a student’s academic record.

ACADEMIC HONORS

The Dean’s List

The Dean’s List (for each term except summer) includes those full-time undergraduate students who have earned at least a 3.4 average for not less than 12 semester hours’ credit in the semester just ended.

Included in the listing for the spring term are those part-time students who have earned at least a 3.4 average for the fall and spring terms, and who have accumulated a minimum of 12 hours of credit.

Class Honors

To be eligible for undergraduate class honors a freshman must have completed at YSU at least 12 semester hours; a sophomore 24 semester hours; a junior 36 semester hours; and a senior 48 semester hours. Honors are based on the accumulative point average at YSU only; no transfer work is included. Both full-time and part-time students are eligible, provided they 1) have a minimum cumulative point average of 3.00; 2) have earned at least 12 credits in traditionally graded courses taken during the three semesters (including summer) preceding the term in which honors are awarded; and 3) are enrolled during the current term. Non-matriculated, post-secondary enrollment option students, transient students, post-graduate transfer students, and YSU students who have received a baccalaureate degree prior to spring semester in the academic year in which the honors convocation is held are not eligible. A student can receive class honors only once as a member of a particular class (freshman, sophomore, etc.). The number of honor recipients approximates the top one percent of the total fall enrollment of every class in each undergraduate unit of the University, but it may slightly exceed this figure because of ties.

Honors Convocation

The Honors Convocation recognizes those students who have distinguished themselves academically. Class honors certificates are given on this occasion, and some of the awards listed under Awards and Prizes (See Student Activities section) are announced and presented.

Graduation Honors

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

Those who attain a quality point average of 3.8 or higher are granted their degrees summa cum laude.

Those who attain a quality point average of less than 3.8 but not less than 3.6 are granted their degrees magna cum laude.

Those who attain a quality point average of less than 3.6 but not less than 3.4 are granted their degrees cum laude.

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

Those who attain a quality point average of 3.7 or higher are granted their degrees With High Honors.

Those who attain a quality point average of less than 3.7 but not less than 3.4 are granted their degrees With Honors.

A student who has processed an approved Statute of Limitations is ineligible for graduation honors. All YSU grades (including those deducted from accumulative totals as a result of an approved Repeti-
tion Form) will be counted in determining honors for graduation.

Transfer students who are baccalaureate degree candidates must have at least 60 semester hours of credit at Youngstown State University, or those who are associate degree candidates must have at least 40 semester hours of credit at Youngstown State University to be eligible for graduation honors. However, no transfer credit—work taken at any time at an institution other than Youngstown State University—is included in the calculation of the point average.

ACADEMIC MISCONDUCT

Academic Honesty

Academic honesty is essential to the educational process and serves to protect the integrity of the University community. Therefore, all members of the University community have a responsibility of maintaining high standards of honesty and ethical practice. Cheating, plagiarizing, and other forms of academic dishonesty constitute a serious violation of University conduct regulations.

Though instructors are responsible for taking all reasonable precautions to prevent cheating and plagiarizing, students share a joint responsibility and should report any act of academic dishonesty to the instructor.

In cases involving academic dishonesty, the faculty member may take one or more of the following actions:

- warn a student; no further action
- submit an “F” grade on the exam or paper
- submit an “F” grade for the course
- and/or request additional sanctions from the Student Academic Grievance Subcommittee.

The faculty member shall obtain from the Office of Student Life an Academic Dishonesty Report to be completed and returned to the Office of Student Life.

The faculty member should discuss the circumstances of the incident with the student prior to taking any action.

The student may appeal any actions affecting the grade. The Student Academic Grievance Subcommittee will handle such appeals.

A report requesting additional action will be forwarded to the Office of the Provost. Repeated incidents of academic dishonesty or flagrant single offenses may warrant action beyond a failing grade in the course.

Procedures for reporting, investigating, and considering student conduct are found in The Code. The Code is available online at the YSU homepage or may be obtained in the Office of Student Life.

Academic Grievances

The Undergraduate Student Academic Grievance Procedure provides students with a formal channel through which complaints concerning academic matters may be heard. A student must attempt to resolve the complaint by first discussing the issue with the faculty member. If not resolved at that level, the student should direct his or her complaint to the department chair and, if the complaint is still not resolved, then to the dean of the college. Complaints not resolved following a discussion with the dean will be considered by the associate provost for Academic Administration. Upon his or her review, the associate provost determines whether the complaint is grievable. If so it is presented to the Student Academic Grievance Subcommittee. This committee may mandate a grade change only in cases of academic dishonesty or when the faculty member materially deviates from the course syllabus.

Students wishing to file a grievance should contact the secretary in the provost’s office for an appropriate referral. Further information may be found in Article IX, Section B of The Code, which is available online at the YSU homepage or may be obtained in the Office of Student Life.

STUDENT RECORDS

Student Name Changes

Students who need to have their official name changed must complete the Student Name Change form (available at www.ysu.edu/records). Legal documentation (marriage license, passport, divorce document, court order, naturalization papers) must accompany the form. This documentation may also be presented to either the Registrar’s or Records office.

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) he/she wishes to inspect. The University official will make arrangements for access and notify the student of the time and 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 he/she wants changed, and specifying why it is inaccurate, misleading, or otherwise in violation of his/her 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 his/her 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., social security number. One 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 his/her tasks.

A University official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility for Youngstown State University.

Upon request by another school in which a student seeks or intends to enroll, Youngstown State University also discloses education records without a student's consent to officials of such school.

(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:

a. name;
b. address (campus and home);
c. telephone listing (campus and home);
d. e-mail address (campus and home);
e. date and place of birth;
f. field of study;
g. participation in officially recognized activities and sports;
h. weight and height of members of athletic teams;
i. dates of attendance;
j. degrees and awards received;
k. the most recent previous educational institution attended; and
l. photographic, video or electronic images of student.

Any student wishing to exercise this right must inform the Office of Records in writing within the first seven (7) calendar days of any academic term of the information not to be designated as directory information with respect to that student. 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 executive director of Enrollment Management 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. 20202-5901

Any questions about this notification should be directed to the executive director of Enrollment Management.

GRADUATION REQUIREMENTS

Catalog of Entry

Each undergraduate student entering Youngstown State University is entitled to a copy of the Undergraduate Bulletin. This catalog or any one subsequent catalog will be the guide to graduation requirements, provided the student is in continuous attendance and does not change majors.

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

To be eligible for candidacy for any degree, the following three requirements must be fulfilled:

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

An Application for Graduation form must be filed with the Office of the Registrar, registration counter, by the deadline indicated in the University Academic Calendar published on the inside front cover of this Bulletin. The application form is available at the dean's office in your college.

If the student does not graduate at the commencement exercise for which the application has been filed, the application must be reactivated with the appropriate dean. It is the student’s responsibility to make certain all degree requirements are complete. The student must fulfill the: 1) University-wide, 2) college, and 3) departmental requirements as well as the minimum credit hours.

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

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

Additional requirements for the associate or baccalaureate degree appear on the following pages.

**Baccalaureate Degree**

A minimum of 124 semester hours must be successfully completed in order to earn a bachelor’s degree. In addition to requirements stated under Candidacy for a Degree, the following requirements must also be fulfilled for a baccalaureate degree:

**Course Levels.** At least 60 semester hours must be completed in courses numbered 2600 or higher; at least 48 of these 60 hours must be in courses numbered 3700 or higher.

**Majors.** Each student must complete a major. A department major consists of at least 30 semester hours of an approved set of courses. A combined major, in which courses are given by more than one department, consists of at least 48 semester hours. All grades in the major must be “C” or better.

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

As soon as a student has decided on a major, he or she should consult with the department chair of the major department. A major must be declared by the time a student has completed 63 semester hours. Early consultation with the department chair is strongly recommended, since in some departments the student must begin coursework related to the major during the freshman year or risk a delay in graduation.

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

A minor consists of at least 18 hours of an approved set of courses. All grades in the minor must be “C” or better. Courses taken under the Credit/No Credit option may not be counted toward the minor. Upper-division courses must comprise at least 1/3 of the credit hours in the minor. An individualized minor may be developed and approved through the Individualized Curriculum Process (ICP). Transfer students may also use the ICP process for approval of a minor course of study. A minor is designated on the student’s transcript at the time the degree is awarded.

Each department develops the specific pattern or sequence of courses for any minor(s) it offers. However, the department in which the student receives the major is responsible for certifying that a student has completed a minor. Certification will
General Education Requirements — (Basic Skills)

The University implemented this general-education program in the Fall 2000 semester. See page 45 of this Bulletin for more information.

All students should see an advisor before registering for general education credit.

<table>
<thead>
<tr>
<th>BACCALAUREATE DEGREE</th>
<th>ASSOCIATE DEGREE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing 2 courses</td>
<td>Math Placement Test required</td>
</tr>
<tr>
<td>1550*, 1551*</td>
<td>(unless comparable credit is awarded from another source i.e. transfer hours, CLEP, AP, etc.)</td>
</tr>
<tr>
<td>1550H*, 1551H*</td>
<td>Math 2623</td>
</tr>
<tr>
<td></td>
<td>Math 2625</td>
</tr>
<tr>
<td>Speaking 1 course</td>
<td>Possible math substitute (MS) courses.</td>
</tr>
<tr>
<td>CMST 1545*</td>
<td>Check with advisor.</td>
</tr>
<tr>
<td>CMST 1545H*</td>
<td>MATH 1549*</td>
</tr>
<tr>
<td></td>
<td>MATH 1552</td>
</tr>
<tr>
<td></td>
<td>MATH 1570*</td>
</tr>
<tr>
<td></td>
<td>MATH 1571*</td>
</tr>
<tr>
<td></td>
<td>MATH 1572*</td>
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<tr>
<td></td>
<td>MATH 1581H</td>
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<tr>
<td></td>
<td>MATH 1585H</td>
</tr>
<tr>
<td></td>
<td>MATH 2652</td>
</tr>
<tr>
<td></td>
<td>MATH 2665</td>
</tr>
<tr>
<td></td>
<td>MATH 2670</td>
</tr>
<tr>
<td></td>
<td>MATH 2686H</td>
</tr>
</tbody>
</table>

For a list of courses in these areas, see Baccalaureate Chart.

Math Placement Test required

In-coming students must take a minimum of six (6) general-education courses, which include ENGL 1550 and ENGL 1551.

Four additional courses are needed from at least three of the following areas:

- Math (no more than one course)
- Speech
- Natural Science
- Artistic and Literary Perspectives
- Societies and Institutions
- Personal and Social Responsibility

For the most current information about GERs, visit the General-Education website: [http://www.ysu.edu/ger](http://www.ysu.edu/ger).

- These courses are officially approved by the Board of Regents as part of the Transfer Module. For additional information, see the Bulletin, pp. 15–18. To know whether other courses beyond the Transfer Module might be accepted by another Ohio University, go to the CAS System on the Internet at [www.transfer.org](http://www.transfer.org).
### General Education Requirements — Knowledge Domains

The University implemented a new general-education program in the Fall 2000 semester. See p. 45 of this Bulletin for more information.

All students should see an advisor before registering for general education credit.

#### Baccalaureate Degree

<table>
<thead>
<tr>
<th>Natural Science (NS)</th>
<th>Artistic &amp; Literary Perspectives (AL)</th>
<th>Societies &amp; Institutions (SI)</th>
<th>Personal &amp; Social Responsibility (PS)</th>
<th>Selected Topics (ST)</th>
<th>Capstone (CA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2–3 courses</td>
<td>2–3 courses</td>
<td>2 courses</td>
<td>2 courses</td>
<td>1 course</td>
<td>1 course</td>
</tr>
</tbody>
</table>

- ASTR 1504
- ASTR 1504L
- BIOL 1505/H
- BIOL 1505L
- CHEM 1500
- CHEM 1500L
- ENST 1500
- ENST 1500L
- GEOG 1503/H
- GEOG 1503L
- GEOL 1500
- GEOL 1500L
- PHYS 1500
- PHYS 1500L
- PHYS 2608
- STEM 2600

- AFST 2601
- ART 1540
- ART 1541/H
- ART 1542/H
- ART 3780
- DNCE 2698
- ENGL 1590/H
- ENGL 2610
- ENGL 2617/H
- ENGL 2618/H
- ENGL 2631/H
- ENGL 2655/H
- FNLG 2610/H
- MUED 2621
- MUHL 2616/H
- MUHL 2617/H
- MUHL 2618/H
- MUHL 2622
- THTR 1512
- THTR 1560
- THTR 1590
- THTR 2690

- AFST 2600
- AMER 2601/H
- AMER 2605
- AMER 2606
- ANTH 1500/H
- ANTH 1503
- CRJS 1500/H
- ECON 1501
- ECON 1502
- ECON 1503/H
- ECON 2610/H
- ECON 2630/H
- ECON 2640/H
- ECON 2650
- ECON 3703
- HIST 1500
- HIST 1501
- HIST 1511/H
- HIST 1512/H
- HIST 2605/H
- HIST 2606/H
- PHIL 2608
- POL 1550/H
- POL 1560
- POL 2640
- PSYCH 1560
- PSYCH 2692
- PSYCH 3700/H
- PSYCH 3707
- PSYCH 3755
- RELIG 2621/H

- CMST 2610
- CMST 2656
- COUN 1587
- COUN 1588
- ENGL 2603
- FNET 1551
- GERO 1501
- HPES 1500
- HPES 15XX–26XX (2)
- PHIL 2609
- PHIL 2616
- PHIL 2625
- PHIL 2626
- PHIL 2627
- PHIL 3711
- PHIL 3730
- PHIL 3760
- PHIL 3760
- PHIL 3770
- PHIL 3770
- PHIL 3770
- PSYCH 1560
- PSYCH 2692
- PSYCH 3700/H
- PSYCH 3707
- PSYCH 3755
- RELIG 2621/H

- BIOL 3718
- ENGL 2651
- GERO 3745
- HMEC 3780
- PHIL 2600
- PHIL 2619
- PHIL 2630
- REL 2605
- SOC 2690
- SOC 3745
- SPED 2630

#### Possible substitute courses (SS)

- Check with advisor.

- Students may take an additional course in the NS, AL, SI, or MS areas. Check with advisor.

* These courses are officially approved by the Board of Regents as part of the Transfer Module. For additional information, see the Bulletin, pp. 15–18. To know whether other courses beyond the Transfer Module might be accepted by another Ohio university, go to the CAS System on the Internet at [www.transfer.org](http://www.transfer.org).
be guided by the description of minors published in the Undergraduate Bulletin. For a list of minors and their requirements see Minor Areas of Study, p. 237.

Associate Degree

A minimum of 64 semester hours must be successfully completed in order to earn an associate degree. Students in associate degree programs must take a minimum of six general education courses, including Writing I and Writing II, and four additional courses selected from at least three of the following areas: mathematics, speech, natural science, artistic and literary perspectives, societies and institutions, and personal and social responsibility. No more than one course counted toward the requirement may be in mathematics. Students should check with their departments to see if certain general education courses are mandated by their program.

GENERAL EDUCATION REQUIREMENTS

Preface: The purpose of the general education requirements is to foster:

- Qualities such as curiosity, intellectual honesty, fairness, civility, and openness to ideas and the sharing of knowledge,
- Thinking that is critical, independent and objective,
- Integration of knowledge across disciplines,
- The ability to function effectively in a technological society,
- Understanding of the importance of studying the past and present,
- Appreciation of literature and the arts as expressions of human culture,
- Recognition of the importance of acting as informed, responsible, democratically minded citizens of the world,
- And an attitude that learning is a personal and a collaborative process exercised over a lifetime.

GENERAL EDUCATION GOALS

Goal 1: Write and speak effectively.

Students demonstrate communication skills necessary to function in society and to compete in the global market place.

Goal 2: Acquire, process and present quantitative and qualitative information using the most appropriate technologies, including computers.

Students demonstrate the ability to select and use effectively the most appropriate technologies for gathering, analyzing and manipulating, transmitting, storing and presenting information.

Goal 3: Reason critically, both individually and collaboratively, draw sound conclusions from information, ideas, and interpretations gathered from various sources and disciplines, and apply those conclusions to one's life and society.

Students will demonstrate the ability to reason critically, to distinguish among forms of argumentation, and to derive justified conclusions.

Goal 4: Understand the personal and social importance of ethical reflection and moral reasoning.

Students develop their capacity for ethical sensitivities and insight and understand important social issues that confront our society and those values necessary for a democratic nation to prosper.

Goal 5: Comprehend mathematical concepts and reason mathematically in both abstract and applied contexts.

Students demonstrate a fundamental understanding and competency in the use and interpretation of mathematics for problem-solving and decision-making in their personal and professional experiences.

Goal 6: Understand the scientific method, forming and testing hypotheses and evaluating results.

Students demonstrate an understanding of how data are gathered and organized, of how models, theories and laws are constructed and evaluated, and of the purposes, values and limits of scientific investigation. Students are able to critically evaluate scientific problems and assertions using the scientific method.

Goal 7: Realize the evolving interrelationships among science, technology and society.

Students understand the impact and changes in society that take place as scientific principles are discovered and new technology developed. Students understand that societal conditions and needs influence and shape progress in science and technology.

Goal 8: Grasp and appreciate artistic expression in multiple forms and contexts.

Students identify the elements and principles in works of art from a variety of artistic media and evaluate their personal interpretations of the works in light of the viewpoints of experts. Through a variety of aesthetic experiences, students recognize that the arts enrich their lives.

Goal 9: Understand the relationships between physical, mental, and emotional well-being and the quality of life of the individual, the family and the community.

Students recognize the interdependent nature of the individual, family, and society in shaping human behavior and determining quality of life. They understand that mental, physical and emotional well-being are interconnected, make informed decisions about life-style choice, and apply this knowledge to their own well-being and that of others.

Goal 10: Understand the development of cultures and organizations of human societies throughout the world and their changing interrelationships
with Western Society.

Students comprehend how various societies have approached the common problems of human existence over time. They learn that solutions to those problems vary because of tradition, geography, philosophy, or religion, economic development, technological change and political power. Students understand how and why these societies have interacted with Western Society, where applicable.

**Goal 11:** Evaluate the impact of theories, events and institutions on the social, economic, legal and political aspects of society.

Students develop knowledge about the markets, social organizations, legal systems, and levels of government that comprise society. They understand, through study of theories, how these institutions function, interact with each other, and evolve in our society and others.

**Goal 12:** Comprehend and appreciate the development of diversity in America in all its forms.

Students comprehend the historical development of the United States as a democratic political system and the ideals, rights and institutions associated with that system. Students appreciate the diverse characteristics of the populations that comprised American society over time, the ways devised to cope with these differences, and the impact of conflicts over differences on politics and society in general. Diversity includes but is not limited to the characteristics of race, social and economic class, religion, gender, ethnicity, age, disability, lifestyle and political identity.

**Goal 13:** Understand and appreciate the natural environment and the processes that shape it.

Students demonstrate knowledge of the characteristics, processes, and laws that define natural environments. They evaluate the impact of events and changing conditions within these environments.

**Transfer Students**

**Transfer students with a bachelor's degree.** Students coming from another university or from YSU with an already completed bachelor's degree do not have to complete any general education requirements at YSU.

**Transfer students without a bachelor's degree.** All transfer students will take the new general education requirements. Students who have completed the transfer module at a recognized institution may transfer 36–40 semester hours of general education credit. Such students must check with an advisor to determine which courses must be taken beyond the 36–40 hours to complete the YSU general education requirements. Transfer students who have not completed a transfer module must check with a college advisor. (See Transfer Credit on p. 16.) Most Ohio transfer-module courses will equate automatically when YSU receives the transcripts from your original institution. If you have questions, see an advisor or the Coordinator of General Education.

**Baccalaureate Degree**

**A. Basic Skills**

1) **Writing**

To learn the skills of effective writing, students will take two courses: Writing 1—the standard introductory writing course, and Writing 2—a course in which students investigate a thematic topic, gather evidence from the library, Internet, or other appropriate sources, and write a research paper using a computer.

2) **Speaking**

To become effective speakers, students will take an introductory oral communications course. The approved courses are CMST 1545 and 1545H, Communication Theory and Practice.

3) **Critical Thinking**

The critical-thinking learning outcome will be met through your major's curriculum.

4) **Mathematics**

Students must take at least one approved course that teaches mathematical and statistical skills. A student may satisfy this requirement by passing an approved course, or by passing a higher-level mathematics course. The current approved courses are MATH 2623 and MATH 2625, Survey of Mathematics; however, several higher-level courses are approved substitutes: MATH 1549, College Business Mathematics 2; MATH 1552: Applied Mathematics for Management; 1570, Calculus 1; 1571, Calculus; 1572, Calculus 2; 1581H, Biomathematics 2; 1585H, Calculus Honors; 2652, Mathematics for Early Childhood Teachers 2; and 2665, Foundations of Middle School Mathematics 2; MATH 2670; MATH 2686H.

**B. Knowledge Domains**

Students must take two or three courses from each of the knowledge domains. The approved courses are so noted with each area. The total number of courses taken in natural science, artistic and literary perspectives, and societies and institutions must total eight; hence, the pattern of number of courses taken in these three domains may be 2-3-3, 3-2-3, or 3-3-2.

1) **Natural Science (NS)**

Students must take a minimum of two, and no more than three, courses, at least one of which must have a laboratory component.

2) **Artistic and Literary Perspectives (AL)**

Students must take a minimum of two, and no more than three, courses.

3) **Societies and Institutions (SI)**

Students must take a minimum of two, and no more than three, courses.

4) **Personal and Social Responsibility (PS)**
 Students must take two courses.

5. Selected Topics and Electives (ST)

Students must take one course in this area from a list of approved interdisciplinary courses. Alternatively, a student may select one additional general-education approved course from mathematics, natural science, artistic and literary perspectives, and societies and institutions.

6. Capstone

Students must take one upper-division capstone course in the major or from another area that satisfies general education criteria.

Summary of General Education Model

I. Baccalaureate Degree

Basic Skills
Writing I & II ........................................ 2 courses
Speech .....................................................1 course
Mathematics ...........................................1 course

Knowledge Domains
Natural Science......................................2–3 courses*
Artistic & Literary Perspective........2 –3 courses*
Societies and Institutions.....................2 –3 courses*
Personal & Social Responsibility...........2 courses
Selected Topics and Electives..............1 course
15 courses total

* A total of eight courses must be taken in natural science, artistic & literary perspectives, and societies & institutions; hence, the pattern may be 2-3-3, 3-2-3, or 3-3-2.

An upper-division capstone course is required, preferably in the major.

II. Associate Degree

Includes Writing I & II and four additional courses from at least three of the following areas: mathematics, speech, natural science, artistic and literary perspectives, societies and institutions, and personal & social responsibility. No more than one course counted toward the requirement may be in mathematics. Students should consult with their department to see if any general education courses are mandated by their program.

Associate Degree Requirements

Requirements for each associate degree are listed in the appropriate college section. All associate degrees require completion of at least 64 semester hours of credit including 15 hours of general education. All students in associate degree programs who, based on the Math Placement Test, are placed in the developmental math course (MATH 1501) will be required to complete that course in order to graduate.

COMMENCEMENT

There are three graduation ceremonies each year: Fall Commencement is held in December, at the end of the first semester of the academic year; Spring Commencement is held in May, at the end of the second semester of the academic year; and Summer Commencement is held in August, at the end of the summer sessions.

STUDENT SERVICES

Marion G. Resch
Center for Student Progress

The Center for Student Progress, located below the Youngstown State University Bookstore, is available to assist students in successfully completing their University experience. The Center is designed to intervene actively in the lives of students to help them achieve academic and social success in college. In an effort to cultivate the skills of new students, expand the skills of developing students, and enhance the skills of exceptional students, the CSP (which can be found on the web at www.ysu.edu/csp) offers the following services and programs:

Adult Learner Services

The CSP/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 CSP/Adult Learner Services provides academic and personal support both individually and through programming with services such as:

- Math classes for adult students
- Study and learning skills workshops
- Adult peer mentoring
- Early warning progress reports
- Time management and goal setting for adults
- Connections with adult learner groups on campus

More CSP/Adult Learner Services information is available by following the Adult Learner link at www.ysu.edu/csp/adultlearner.shtml, or by phone at 330-941-3538.

Disability Services

CSP/Disability Services provides students, faculty, and staff with assistance and information regarding accommodations for people with disabilities, either permanent or temporary. Compliance with the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 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 CSP/Disability 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 modifications 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 CSP/Disability Services is located at 36 W. Wood St.

Additional information about the CSP/Disability Services may be found by following the CSP/Disability Services link at: www.ysu.edu/csp/disabilityservices/, or by phone at 330-941-1372.

First-Year Student Services
The CSP/First-Year Student Services helps students become familiar with YSU, build confidence, develop direction, and identify opportunities that assist in achieving personal goals. CSP/First-Year Student Services provides all first-year and transfer students with the opportunity for an orientation program throughout the entire first year of college. Peer Assistants, upper-class students who are specially trained, serve as guides and friends to assist new students with time management, goal setting, navigating on campus, social adjustment, academic development, registration, and obtaining a faculty/staff mentor. First-year students receive individualized assistance through the development of a personalized plan to guide them through their first year of college. Services include:

• Peer assistance
• Early warning progress reports
• Various social and academic activities
• Connections and information for parents

The CSP/First-Year Student Services also provides a continuous opportunity for parents and family to stay connected with information about YSU and their students’ first year through the Penguin Parent E-mail and Penguin Parent website which can be found at: http://www.ysu.edu/csp/fyss/penguinparent.shtml.

More information about CSP/First-Year Student Services may be found at: http://www.ysu.edu/csp/fyss/, or by phone at 330-941-3538.

Individual Intervention Services
The CSP/Individual Intervention Services offers professional coordinators to assist students on a one-on-one basis with strategies for college success. Coordinators provide on-site assistance, make campus referrals, and follow-up to ensure students receive all the University support available. More CSP/Individual Intervention information is available through links provided at http://www.ysu.edu/csp/individual_interven, or by phone at 330-941-3538.

Multicultural Student Services
The CSP/Multicultural Student Services provides the following services and programs to African American, Hispanic, Asian American, and Native American students:

• Academic support
• Workshops
• Faculty/staff mentoring
• Campus referrals and connections
• Early warning progress reports
• Co-sponsoring of cultural events
• Advocating for minority students
• Summer Bridge and Bridge and Beyond Learning Community

Information on Multicultural Student Services is available at http://www.ysu.edu/csp/multicultural.shtml, or by phone at 330-941-3538.

Orientation Services
The CSP/Orientation Services realizes that the first year of college is a time of rapid change and new experiences. The CSP/Orientation Services helps students become familiar with Youngstown State University and gives them an edge in achieving their education and social goals. Services include:

• Building confidence, developing direction and identifying opportunities
• Supporting students in their transition to YSU
• Promoting knowledge of campus activities and services that encourage academic achievement and personal growth
• Interacting with faculty, staff, and student representatives
• Receiving academic advisement, selection, and registration of courses
• Providing official information on students’ undergraduate programs, rights and responsibilities
• Parent and family member programming

These services are explained at http://www.ysu.edu/csp/studentorientation/. For additional information, call 330-941-2103.

Student Tutorial Services
The CSP/Student Tutorial Services provides support for academic success by offering:

• Regularly scheduled individual and group tutoring sessions
• Independent study materials
• Computer-assisted instruction
• Review sessions for exams
• Academic support through tutoring in a variety of courses

Additional information on CSP/Student Tutorial Services as well as a tutorial schedule are available at: http://www.ysu.edu/csp/studenttutorial, or by phone at 330-941-7253.

Supplemental Instruction Services

The CSP/Supplemental Instruction Services (SI) offers a series of weekly review sessions for students taking selected courses. Availability of SI is announced in the classroom at the beginning of each semester. SI is provided for all students in these classes who want to improve their understanding of course material and improve their grades. SI attendance is voluntary. For students, it’s a chance to get together with classmates to compare notes, discuss important concepts, develop strategies for studying the subject, and take part in practice tests. At each session, the student SI leader, who attends the class and facilitates the session, will guide students through this material. The SI leader has previously taken the class and has received preparation to share information about both course content and learning strategies. There is a link for CSP/Supplemental Instruction at http://www.ysu.edu/csp/supplementalstudent. For additional information, call 330-941-7253.

Career and Counseling Services

Career Services

Your connection to careers and employment opportunities begins with the Office of Career and Counseling Services. This office provides comprehensive career planning/exploration and job search services to students and alumni in all areas of career decision-making and the professional job search. Students are encouraged to become familiar with Career and Counseling Services early in their course of study in order to fully utilize and benefit from available services and resources.

Services and resources available to students include: individual career and job search consultation; computerized interactive career planning software for assistance with individual academic/career planning; job postings from hundreds of local, regional, and national employers; a comprehensive career resource information center; employment search skill development programs and workshops offered each semester; an on-campus recruiting program which annually brings employer organizations to the YSU campus to interview graduating students for employment after graduation; and annual career/job fairs and consortium job fairs. Our staff also assists students in finding employment while enrolled in the University, either on-campus or with local area employers.

Central to the operation of the Office of Career and Counseling Services is PenguinLink (software by Symplicity), a totally web-based software system that makes it possible for currently enrolled students, YSU alumni, and employers to have 24-hour-a-day/7-day-a-week access to recruiting information and services at Youngstown State University. Through PenguinLink, students and alumni registered with Career and Counseling Services can upload their resumes to the database and publish their resumes to one or more online resume books, search job listings and email resumes directly to employers, quickly view the latest announcements from our office, and review the recruiting schedule and sign up for interviews with employers recruiting on campus.

Counseling Services

Juggling life’s responsibilities is a challenge that causes many individuals to feel anxious, confused, or overwhelmed at times. Youngstown State University Counseling Services provides a comfortable environment in which to discuss and address problems and possible solutions. Short-term counseling, consultation, and referral services are provided to currently enrolled students, and there is no fee for services. Issues commonly addressed during individual counseling sessions include: depression, anxiety, relationship problems, low self-esteem, school and work problems, eating disorders, and loss and grief issues.

The Office of Career and Counseling Services is located in 1034 Jones Hall. The office hours are 8:00 am – 5:00 p.m. on Mondays though Fridays. Our phone number is 330-941-3515, and our web site address is www.ysu.edu/career-services.

Office of Veterans Affairs

Located in Tod Hall, the Office of Veterans Affairs (OVA) serves as a central location to discuss issues, questions, or concerns current and prospective students may have regarding their enrollment. The university recognizes the sacrifice of military service and waives the undergraduate application and orientation fees for all veterans and current military. To have the application fee waived, the applicant must apply through the OVA with a printed-out undergraduate application form and verification of service in the armed forces of the United States.

After their initial registration, all former and current military personnel will receive priority registration notification for their second term.

The Office of Veterans Affairs administers the Army ConApp program and actively recruits all current and former military personnel.

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 nine-member body with representation from faculty, students, staff, the community and
Kilcawley Center

Kilcawley Center is often referred to as the heart of campus. This not only refers to its central location on campus, but to the services, conveniences, programs, and amenities it provides to the University community. The Center’s casual atmosphere, comfortable lounges, and attractive dining areas are aimed at making free-time activity an integral part of a YSU education. Active with cultural, social, and recreational programming, Kilcawley Center provides for rich and diverse experiences outside the classroom. Visit Kilcawley’s web site at www.kc.ysu.edu for details on Kilcawley’s services, staff directory, the daily calendar of events, and student job postings.

The Center’s services include the Candy Counter and the Bagel Stop for quick between-class snacks, a bank and ATM machines, copy service, a travel agency, fax service, a U.S. Mail drop, as well as offices for Student Government and student organizations.

Kilcawley Center’s several study lounges are renowned for their comfortable overstuffed chairs and couches, good sites for doing classwork, studying, or catching a nap. The lounges and restaurant dining areas offer high-speed wireless Internet access for laptops. Kilcawley Center also houses sixteen seminar rooms, two computer-training classrooms, and a large multi-purpose room. On a daily basis these rooms host luncheons, workshops, seminars, lectures, organization meetings, and programs.

Graphic Services, located on the lower level of the Center, designs flyers, banners, posters, brochures, and graphics to fit whatever the need may be. Graphic Services is open Monday-Friday and offers a lamination service and a variety of helium balloons for every occasion. Also on the lower level of the Center is ComDoc Copy Services, two ATMs, and the YSU branch of Home Savings & Loan which provides for rich and diverse experiences outside the classroom. Visit Kilcawley’s web site at www.kc.ysu.edu for details on Kilcawley’s services, staff directory, the daily calendar of events, and student job postings.

Graphic Services is open Monday-Friday and offers a variety of food choices. Daily menu offerings include fresh fruit smoothies, homemade soups, custom-made subs, wraps, sandwiches, home-style fries, and a variety of ready-to-go items. Popular are the large slices of pizza, pasta dishes, and giant homemade cookies and desserts. KC Food Court features Freshens Smoothie Company, SubConnection, Grill 155, Pennyguins, and KFC Express. The Food Court is open for lunch Monday through Friday throughout the academic year, with several areas offering extended evening hours on designated days.

The Bagel Stop is a New York-style bagel shop open for both breakfast and lunch Monday through Friday. The menu features fresh bagels with flavored cream cheeses, just-baked muffins, and Starbucks coffee. For lunch, the Bagel Stop offers ready-to-go bagel sandwiches, PB&J’s, made-to-order salads, wraps, yogurts, fresh fruit, smoothies, and cookies.

The Kilcawley Candy Counter is a popular spot. Choose your favorite chocolates, gummy candy, dried fruit, and nuts from the old fashioned candy jars, and the Candy Counter student staff will weigh out your order. Energy drinks, ice teas, juices, and cold Coke beverages, as well as a variety of granola bars, cookies, crackers, chips, and crunchy snacks are sold at the Candy Counter, along with U.S. postage stamps.

Kilcawley’s Pete’s Place Restaurant offers comfortable booths and buffet dining for breakfast and lunch. Pete’s Place features whole-wheat gourmet pizzas, specialty salads with organic dressings, homemade soups, just-baked breads, and Coke beverages for one low price. For a small additional charge, diners can add a sandwich or pasta-of-the-day. The restaurant
is open Monday through Friday till 2 p.m., with extended dinner hours on Wednesdays and Saturdays. Pete’s Place is located on the upper level of Kilcawley with entrances located at University Plaza and the east wing breezeway between Kilcawley Center and Kilcawley House.

Don’t want to bother with cash? If you add Pete’s Points to your YSU ID card, you can swipe-and-go at any Kilcawley dining location, including the Kilcawley Candy Counter and the YSU Bookstore. A variety of meal-plan options is also available for purchase. If you have meal plan questions and would like a brochure, or wish to purchase Pete’s Points or a meal plan, visit the Card Office located in the Kilcawley Center Staff Office.

University Dining’s Office is located on the upper level of Kilcawley in the main lobby entrance. The office provides a full catering menu for small group functions to large dinner buffets for up to 450 persons.

The YSU Bookstore is located on the upper level of the Center, as are the campus convenience store, Pan Atlas Travel Agency, the Kilcawley Staff Offices, and the offices of Student Life, Student Government, Student Diversity Programs, and Student Programming/Greek Life/Homecoming. The Andrew’s Student Recreation and Wellness Center can also be accessed from the upper level of Kilcawley Center.

Kilcawley Center’s lower level west wing, located under the YSU Bookstore, houses the Center for Student Progress. The east wing of Kilcawley Center is Kilcawley House, where the Office of Housing and Residence Life and the Student Health Clinic are located on the first floor.

**Ombudsperson**

Youngstown State University’s ombudsperson provides students with an experienced staff member who can answer questions, help mediate disputes, solve problems, explain policies, and recommend changes in University policies and procedures that may be outdated or ineffective. Available during regular office hours in the staff offices of Kilcawley Center, the ombudsperson serves as an advocate, a confidant, a mediator, a helper, and a listener. Visit [http://ombuds.ysu.edu/](http://ombuds.ysu.edu/) for more details.

**Student Health Clinic**

The Student Health Clinic is located on the first floor of Kilcawley House, which is adjacent to Kilcawley Center. The entrance to the Clinic is located off University Plaza.

The Clinic provides health care to all currently enrolled YSU students—both resident and commuter students. Licensed physicians staff the Health Clinic twelve (12) hours per week during the semester. Appointments are required. Students must call 330-941-3489 to schedule an appointment. During break weeks and summer term, physicians have limited hours; however, registered nurses are available daily, year round.

Health care is available for illness, injury, first aid, and routine health checks. Health screenings 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 student health insurance to use the Clinic’s services. Blood tests, x-rays, lab tests, etc., ordered by a YSU Health Clinic 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.

The Student Health Clinic also provides information and registration forms for Student Health Insurance. Details concerning the policy are available by stopping in or calling the Health Clinic office.

**Student Health Insurance**

The University makes a health insurance policy available to students who qualify. Details are available from the YSU Student Health Clinic webpage at [http://healthclinic.ysu.edu/](http://healthclinic.ysu.edu/). Click on insurance.

**Day Care**

Students who have younger children may wish to place them in on-campus childcare centers.

Wee Care Day Care and Learning Centre is the official provider of childcare services to Youngstown State University students, faculty, staff, and alumni. It has a professionally trained staff that takes care of children ages six weeks to 10 years. The Centre is located in Fedor Hall and is open from 5 a.m. to 11:30 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 location and the quality of its program, students especially like the flexible scheduling options.

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 call 330-965-7828 for more information.

Partial reimbursement is also available to University students for licensed off-campus day care facilities. Contact the Office of Financial Aid and Scholarships at 330-941-3501 for more information.

**ACADEMIC RESOURCES**
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 at http://www.rich36.com/ysu. Consultants are also available for walk-in sessions on a first-come, first-served basis. Evening, weekend, and satellite hours at Stambaugh Stadium and the YSU Metro College at Southwoods vary by semester.

For more information about the Writing Center, please call 330-941-3055 or e-mail wcenter@ysu.edu. Appointments outside regular hours, online advice for distance-learning students, and extended sessions for papers longer than 10 pages (i.e. capstone projects) can also be arranged.

Mathematics Assistance Center

The Mathematics Assistance Center (MAC) is an academic support service integrated with the Department of Mathematics and Statistics. Its mission is to offer YSU students assistance in the strengthening of their fundamental mathematics skills necessary for success in the study of mathematics. This mission is accomplished through services provided such as one-on-one or group tutoring and the provision of resource materials for independent study.

The MAC has many services available to currently enrolled YSU students. The main service, tutoring, is provided to students currently enrolled in mathematics courses ranging from Elementary Algebraic Modeling through Calculus. In addition, other services such as computer-assisted instruction, video-based instruction, mathematics course solutions manuals, some mathematics “hand-outs” for selected topics, and specific workshops (offered as needed and as resources permit) are available to any currently enrolled YSU student.

The Mathematics Assistance Center (MAC) operates on a walk-in basis during business hours (listed below) at its location in Room 3090, Cushwa Hall. The staff of the MAC consists of a coordinator, assistant to the coordinator, graduate and undergraduate tutors, and student office assistants.

For any additional information, call the Mathematics Assistance Center (MAC) at 330-941-3274. Business hours for fall and spring semesters are Monday through Thursday 9:00 a.m. to 5:00 p.m., Friday 9:00 a.m. to 3:00 p.m. For summer hours call the MAC.

Reading and Study Skills Center

The Reading and Study Skills Center provides individualized and course instruction in improving reading rate and comprehension as well as enhancing strategies for studying at the college level. Staffed by instructors, graduate students, undergraduate peer tutors, an administrative assistant, and a coordinator, the Reading and Study Skills Center primarily maintains classes and tutoring sessions for RSS 1510A, 1510B and 1510C—courses students may be mandated to take based on the COMPASS® Reading Test (CRT). Additional services include individual tutoring, college success workshops, and assistance with preparation for standardized tests such as PRAXIS, MCAT and GRE. Students may call or visit our website to schedule an appointment for individual tutoring or to view the semester calendar of free workshops.

The services offered by the Reading and Study Skills Center are free of charge to all registered YSU students. The Center is located in the lower level of Maag Library and is open from 8:00 a.m. to 6:00 p.m., Monday and Wednesday, and 8:00 am to 5:00 p.m., Tuesday, Thursday and Friday. For more information contact the Reading and Study Skills Center, telephone 330-941-3099 or the website: www.ysu.edu/rdg-studyskills.

Maag Library

The six-story William F. Maag Library is an attractive, comfortable, yet technically advanced, environment for study and research at the center of the YSU campus. Maag Library provides comprehensive information services as well as access to information in print, analog, micro and digital formats. A professional staff provides in-depth assistance in a wide variety of disciplines. Maag Library is open for on-site use more than 85 hours per week during the term. Virtual access to library services, the on-line catalog, and direct digital information resources is available via MaagNet, www.maag.ysu.edu, providing constant access from home or office.

Maag Library is a member of OhioLINK, a statewide library and information network linking the libraries of all of Ohio’s public and private colleges and universities. OhioLINK provides straightforward, easy access to a combined collection of over 39 million items. The vast majority of this state-wide collection is open to patron-initiated borrowing with rapid delivery to any member site. The network also provides access to over 100 indexing and abstracting databases in a wide variety of disciplines and direct access to the full text of over 5700 scholarly journals. OhioLink is currently working to provide direct Internet access to a wide variety of audio, visual, and primary-source materials.
Maag Library itself offers instructional and research materials in books, periodicals, microforms, CD/DVD, and sound recordings to a combined catalog of over 1.5 million records. These holdings number close to 100,000 government documents (with access to millions on-line), 700,000 bound volumes, and 800,000 microforms. Periodicals, microforms, and micro-readers are housed on the first floor. A copy-management center allows self-service. User service points such as reference and circulation, as well as most staff offices, are conveniently located on the Library’s entrance floor. The book collection is in open stacks, with split-level design between stack and reading areas. Study rooms and carrels are located on five of the floors.

Maag Library houses over 150 contemporary computer workstations, connected to a high-speed network, located throughout the building. The fourth floor of Maag houses a general-purpose productivity computer lab that is open to faculty and students as many hours as the library is open. Moreover, laptop computers with wireless network connections can be checked out for use anywhere in the library. In addition, any YSU faculty, staff or student with a wireless device is able to connect to the Maag wireless hubs.

In 2004 Maag Library initiated the development of the Archives and Special Collections unit. Located on the fifth floor of Maag, this unit not only collects and preserves documents detailing the history of YSU and its environs but also is developing the capacity to provide searchable Internet access to its entire collection. The Maag Multi-Media Center on the third floor contains over 20,000 phonograph recordings, audio and video tapes as well as audio and data disks. The collection is strong in recordings of opera, jazz, and the collected works of J.S. Bach. A significant effort is currently underway to digitize most of the collection’s analog recordings.

The Curriculum Resource Center (CRC) located in the Beeghly Hall College of Education is also a vibrant part of Maag Library, offering curriculum materials and support for students in education.

The lower level of Maag Library houses the Writing Center, The Reading and Study Skills Center, and the English Language Institute.

**The Computer Center**

YSU’s centralized computational facility houses the Computer, Network, and Telephone Services departments. The Computer Center, which provides decentralized access to faculty, staff, and students, occupies the fourth floor of Meshel Hall. The Tech Desk, housed on the fourth floor of Maag Library, provides customer support services.

Personal computers are available on campus for instruction and research. Currently, more than 60 labs are available within the 14 campus buildings and the suburban Metropolitan College site. Networked personal computers allow access to local software, as well as to other facilities on campus, such as Maag Library, and to Internet sites worldwide. The Electronic Campus provides faculty, staff, and students the opportunity to use global and local computer networks and current-generation computer hardware and software via a high-speed network infrastructure.

Supporting both academic and administrative needs is the SunGard Banner ERP software suite. For those students, faculty, and staff needing UNIX shell services, a Sun server running Solaris 2.8 is available on the network. More than 4,000 online devices, including terminals, personal computers, printers, and projection systems are located on campus. A Virtual Private Network (VPN) is provided for remote access off campus.

An Ethernet backbone that runs through campus connects workstations, personal computers, and Maag Library’s computer system. All campus buildings are linked to a gigabit Ethernet optical fiber network backbone consisting of fully meshed high-speed core switches; 100Mb Ethernet is available to the desktop using Category 5 copper cabling.

Over 10,000 network locations have been wired with electronics to activate 5,000 concurrent connections. Campus Intranet and Internet access is available at each of these locations, including all residence hall rooms. Selected classrooms are equipped with fiber optic access to facilitate broadcast quality, full-motion video distribution, and distance-learning opportunities. Over 200 locations on campus have wireless network services, including Maag Library, Kilcawley Center and on-campus housing. Plans to extend wireless access to areas throughout the campus are also underway. The MyYSU portal extends e-mail services to all students, faculty, staff, and University guests.

**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 a state-of-the-art foreign language lab facility designed for both classroom use and individual study in second-language acquisition and the study of foreign languages, literatures, and cultures.

The LLRC audio lab was completely renovated and remodeled in 2009. The new audio lab carrels are equipped with the most current digital Sanako hardware for language learning and the Sanako Duo software, a digital two-track interactive audio recorder. The audio lab, which is reserved for foreign language study, has 30 student stations each equipped with Dell personal computers with CD-RW/DVD-ROM combo drives, Windows Office 2007, and Tandberg Educational headphones. With Sanako, a digital audio or video file may be played
back from a program track while students simultaneously record their response on the student track. The LLRC computer lab has an additional 50 student Dell personal computers and is an open lab when not in use for a class. Student assistants are hired to assist with the various types of equipment and to tutor the languages taught at YSU.

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 for recording neural activity, animal housing areas, a child observation room, and equipment for the control of animal behavior.

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, and 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 writing and editing classes, one lab for journalism classes in Fedor Hall, and one Writing Center lab in Maag Library.

Computer facilities in the new **Williamson Hall** include three networked computer labs with direct internet access and laser printers. A Financial Service Lab and Professional Sales Lab are also available. 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, medical technology, respiratory care, human ecology, clothing and textiles, medical assisting, paramedical science, and mathematics.

Laboratories in Moser Hall are described in the College of Science, Technology, Engineering, and Mathematics section of the catalog.

**The Bookstore**

The YSU Bookstore, located between Kilcawley Center and the Andrews Student Recreation and Wellness Center, stocks textbooks for all YSU classes. The YSU Bookstore offers ways to save students money by offering used textbooks that save 25% off new prices; the Get Booked Early promotion that offers savings for online purchases (http://www.ysubookstore.com/) and textbook buyback, held the last two weeks of the fall and spring semesters and selected other dates, when students can receive cash (up to 67% of the original price) for their resalable textbooks. Students will also find YSU logo apparel and gifts, supplies, fiction and nonfiction books. Rounding out the exceptional shopping experience at the Bookstore is a convenience store with your favorite snacks, coffee, and last-minute supplies. Visit us on the web at [http://www.ysubookstore.com/](http://www.ysubookstore.com/) or call 330-941-3589.

**Comprehensive Testing Center**

The Comprehensive Testing Center is a part of the Division of Student Affairs. Among the testing services provided are administrations of national admission and certification examination. These include the American College Test (ACT), the Graduate Record Exam (GRE) Subject Test, the Miller Analogies Test (MAT), the Law School Admissions Test (LSAT), and the PRAXIS exam.

Additionally, YSU’s computer-based placement testing is administered through this office. Placement tests are administered year-round in both group and individual sessions.

General and vocational-interest examinations for guidance purposes are available on campus. Current YSU students wishing to take such tests may make arrangements with the University’s Counseling Center.

**Center for International Studies and Programs (CISP)**

The Center for International Studies and Programs (CISP) is an integral part of the Division of Academic Affairs and is responsible for coordinating the international dimensions of the university, including international student and faculty services, study abroad and exchange programs, and the English Language Institute. The CISP is guided by the university’s International Advisory Council. For more information on studying abroad and about the English Language Institute, visit [http://www.ysu.edu/EngIns](http://www.ysu.edu/EngIns).

**International Undergraduate Admission**

Applicants who are not U.S. citizens or legal permanent residents should apply for undergraduate admission through the Center for International Studies and Programs (CISP). For an application form and more information about international undergraduate admission, please visit the CISP website at [http://www.ysu.edu/cisp/](http://www.ysu.edu/cisp/). Those wishing to enroll in the English Language Institute (ELI) also apply directly to the CISP. For more information about admission, see International Undergraduate Applicants on p. 20-22; for more information about the ELI, see p. 75.

**International Student and Faculty Services**

CISP coordinates international student recruitment and admission, the international student health insurance program, and the Stephen and Brigitta Hanzeley International Student Scholarship. The CISP also provides immigration-related services for international students, faculty, and staff. For more
information about requirements for enrolled international students, see Requirements for Nonimmigrant Students on p. 37.

**International Student Association (ISA)**

Originally founded in 1958 as the International Student Federation, the purpose of ISA is:

- To promote positive interactions among U.S. American and International students;
- To increase awareness of international cultures at Youngstown State University and in the Youngstown community;
- To be a place where international students can find common ground;
- To support international students at Youngstown State University.

**HOUSING & RESIDENCE LIFE**

**University Housing**

YSU owns and operates five housing facilities for students: Kilcawley House, located on University Plaza; Lyden House and Cafaro House on Madison Avenue; and Wick House and Weller House on Wick Avenue. On-campus options for students range from traditional residence hall facilities to apartment-style housing.

On-campus living provides students many advantages and opportunities. University housing facilities are structured environments. Each is a small community, and as such, has procedures and regulations addressing such things as noise, safety, guests and security. University residence halls have full-time professional and part-time student staff that oversee the operation of the halls and assist students with the challenges of daily college life. Each facility has state-of-the-art building security systems. 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.

**Kilcawley House**

Kilcawley House was constructed in 1965. All areas of this facility have been refurbished recently. Public areas, bathrooms and student rooms are attractive and modern. This seven-story building can accommodate 224 students. Kilcawley residents live in double-occupancy rooms, complete with bunk beds, wall-to-wall carpeting, built-in desks, cable TV, Internet access, and plenty of closet and drawer space. Rooms feature separate room-controlled heating and air conditioning. Lounges and study areas are available on each floor. A computer lab with Internet access is located in the basement. The basement also contains a TV lounge, a game room equipped with ping-pong and pool tables, a kitchen with vending machines, fitness equipment, a 24-hour study area and two music practice rooms. Its residents have the advantage of being located in the heart of the YSU campus, and can use all of Kilcawley Center’s facilities, including Home Savings & Loan Bank, computer center, and copying service, without going outdoors.

**Lyden House**

When Lyden House opened in the fall of 1990, a new era began for on-campus housing at Youngstown State. The impressive five-story structure reflects a traditional collegiate gothic style with clean, contemporary lines.

Lyden House, located just north of campus along Madison Avenue, houses 300 students. A typical student room is approximately 12' x 17' and houses two students. In addition to a bunk bed, which can be stacked or separated, each student has a desk and chair, a dresser, a shelving unit and an armoire wardrobe unit. The furniture is uniquely designed to interchange to suit the individual student’s tastes in personal decor.

Rooms also feature separate room-controlled heating and air conditioning units, cable TV, decorator vertical window blinds, overhead lighting and tiled floors. Each room has high-speed Internet access. All rooms in Lyden are designed to be handicapped accessible.

Each wing of this beautifully designed residence hall includes convenient shower and restrooms, quiet study rooms, and comfortable conversation lounges. Students have full access to a kitchenette/vending area, fitness room, computer lab with Internet access and laundry facilities in the lower level of Lyden. A convenient parking area is also available adjacent to Lyden House.

**Cafaro House Honors Residence**

Cafaro House, our newest residential honors facility, is coed, housing 274 students. The facility, which opened fall 1995, houses participants in the University Scholars Program, B.S.M.D. program, Honors Program, and the Emerging Leader Community.

Enclosed suites rather than traditional rooms accommodate 6-18 residents, with individual rooms branching off each suite area to house 2-3 residents. Each room has cable TV, and high-speed Internet access.

In addition to providing a variety of lounge and recreational spaces similar to Kilcawley and Lyden, this facility also has academic spaces such as a seminar room, computer lab with Internet access, and music practice rooms.

**Weller House**
Weller House is located along Wick Avenue next to the Arms Family Museum of Local History and near the Butler Institute of American Art. Weller House accommodates 19 upperclass, junior, senior and graduate residents. Furnishings provided for each student are similar to those previously listed for Lyden House residents.

Weller House opened in fall 1991, offering apartment-style on-campus living, each unit having a full bathroom with tub and/or shower, and a kitchen furnished with modern cabinets, high-speed Internet access, cable TV, an electric range, refrigerator/ freezer, garbage disposal and a dining table. Apartments vary in size and are designed to accommodate one to three students.

Weller also offers students a comfortable, group lounge with convenient laundry facilities on the lower level.

**Wick House**

Located on Wick Avenue adjacent to Weller House, Wick House is a restored mansion that was at one time the home of the Wick family. This residence hall offers unique living spaces for 36 upperclass residents. Rooms vary in size and design, accommodating one to four residents, and several rooms offer private bathrooms. Rooms are furnished with beds, desks, and wardrobes similar to those found in Lyden House.

Wick House provides a kitchenette and large lounge on the first floor and laundry facilities in the basement. Ample parking is available adjacent to the building.

**Christman Dining Commons**

The Christman Dining Commons opened for fall 1991, and serves students with an on-campus resident meal card or on a per-meal cash basis. The Commons is located adjacent to both Lyden House and Cafaro House and is easily accessible from Elm Street, Madison Avenue, and Custer Street.

This gracious single-floor dining facility architecturally complements Lyden and Cafaro Houses, seats 300 and will serve over 600 per meal.

The Commons 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.

Various meal plans are also available to those current students not living in University-owned facilities.

**Application for Housing**

Applications are available online at [http://housing.ysu.edu/application](http://housing.ysu.edu/application) If you indicate an interest in housing on your application for admission, an information packet will be sent to you.

In order to be accepted for University Housing a student must first be admitted to the University.

Space is allocated on a first-come first-served basis. If you have not yet applied to the University, contact the Office of Undergraduate Admissions at 330-941-2000.

**University Housing Partners**

**University Courtyard Apartments**

New for the fall of 2003 were the University Courtyard Apartments. Independently owned and operated, these are an ideal option for students wishing to live close to campus but not in a University residence hall. The University Courtyard Apartments are located in the Wick Oval, just minutes away from the center of campus and adjacent to Bliss Hall, home of the College of Fine and Performing Arts. There are 1, 2 or 4 bedroom apartments available, and each apartment comes equipped with ceiling fans, wall-to-wall carpet, appliances—including dishwasher and microwave—garbage disposal, and mini-blinds. In addition, every apartment comes fully furnished. In the apartment complex, there are planned resident activities, a study center—including a computer lab—and a choice of fitness and recreation opportunities. The rent for the apartments is all-inclusive, which means the residents pay one amount for everything—central heat and air, electricity, water and sewer, local telephone, high-speed Internet access, and basic cable TV. Complete with a comprehensive safety and security plan, the University Courtyard Apartments provide an ideal way to “study hard and to live easy.”

**Buechner Hall**

Buechner Hall, a privately owned and operated women's residence hall, is located near the center of campus. Although this facility is not operated by Housing Services, cooperation and regular communication ensure that the women residents are integrated into campus life.

Designed and built expressly for women, Buechner Hall is operated by the Buechner Foundation, a private, not-for-profit corporation, and is maintained by funds from the original bequest. The Foundation partially underwrites every resident’s cost. Located on the YSU campus, Buechner Hall houses 72 women in single and double rooms. The air-conditioned rooms are completely furnished, including linens and telephones, and are cleaned weekly by the housekeeping staff. The dining room provides 15 home-cooked meals a week, and weekend cooking facilities are also available. The building has an elevator and sprinkler system, and laundry facilities on each floor. Staff and security guards provide maximum 24-hour security service. A beautiful and immaculately maintained building, Buechner Hall is conducive to a quiet study environment. It is located at 620 Bryson Street, Youngstown, OH 44502 330-744-5361.

**Independent Living**

Off-campus housing is an attractive option for many students. In the greater Youngstown area, there
is a wide variety of apartments, houses, and rooms for rent at surprisingly reasonable rates. Much of this housing is within walking distance to campus, so students without their own automobile are able to take advantage of it. Many students with transportation opt to live further from campus.

Whatever kind of housing you are interested in, please contact the Office of Housing & Residence Life at 330-941-3547 for more information.

Lockers
Current students may rent a locker on campus for $20. All items stored must be removed at the end of each academic year. The University assumes no responsibility for property stored in a locker. Information about campus lockers is available at the YSU Info & PC Lab, upper level, Kilcawley Center.

CAMPUS SAFETY

University Police Department
A well-trained and well-equipped campus police force is maintained by Youngstown State University. The department is located in Clingan Waddell Hall at the corner of Fifth Avenue and Wood Street.

The staff consists of 23 sworn police officers, 6 support employees, and an intermittent staff of 150 sworn officers. The department is a personal-service, technology-efficient law enforcement unit. The staff is supported by a sophisticated communication system, closed circuit television, well-equipped cruiser/patrol vehicles, and computer-based record keeping.

The training of departmental personnel is ongoing, and crime prevention is a departmental priority. Some officers are members of the Mahoning Valley Law Enforcement Task Force. This participation results in the availability of additional police resources for the University community.

The University Police Department is open 24 hours a day. The general business telephone number is 330-941-3527. The emergency service number is extension 911. Campus emergency telephones are located throughout campus that will connect you directly to the YSU Police Department in the event of an emergency.

All students are encouraged to program the YSU Police Department phone number (330-941-3527) into their cell phones for immediate contact with a YSU Police Dispatcher when a campus phone is not available or convenient.

Campus Safety Statistics
Youngstown State University has an outstanding record of safety on campus. For a detailed description of campus safety measures and FBI Uniform Crime Report statistics, see the publication Your Right To Know, available from YSU Police, the Vice President for Student Affairs, or from the campus crime-prevention boards located in all campus buildings.

Campus Crime Alerts can be viewed at the department website: http://www.ysu.edu/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 http://alert.ysu.edu 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. Escorts are available Monday through Thursday from 7:00 a.m. to 11:00 p.m., on Friday from 7:00 a.m. to 7:00 p.m., Saturday from 8 a.m. to 2 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 7:00 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, on holidays and weekends, call the YSU Police Department at 330-941-3527 if you need an escort.

PARKING
Parking for students, faculty, and staff is available close to all major campus buildings. You must secure a parking permit on either a semester or a daily basis to be able to park in these lots. You may order your parking permit online through the MyYSU Portal and it will be mailed to you the next business day.

Some short-term metered parking is available on the streets surrounding campus and beside Meshel Hall.

Parking areas are designated as follows:
M—Mixed Parking (faculty, staff, and students)
R—Resident Parking
F—Faculty/Staff Parking

Parking facilities for students include two parking decks and specified surface lots. Although some lots are designated for faculty/staff parking during the day, after 4:30 p.m. daily, all F-lots become mixed
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 brochure contains additional information about University-controlled parking. The brochure is available from Parking Services in Room 2000, 318 Fifth Avenue or on the YSU web page, www.ysu.edu/parking.

For information on registration of vehicles and applicable fees, see the Fees and Expenses 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.

STUDENT ACTIVITIES

Youngstown State University offers a broad range of campus activities geared to enriching and expanding the student experience beyond the classroom. Participating in student government, intramurals, student publications, art and music groups, and over 165 student organizations give 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.

Campus Recreation and Student Programming

The Department of Campus Recreation and Student Programming strives to assess, create, implement, and evaluate campus programming opportunities that foster student engagement while meeting the needs of Youngstown State University’s diverse student population. With state-of-the-art facilities, the Department has promoted a holistic approach to wellness and an increased satisfaction in campus life. The Department seeks to support and complement the University’s academic mission by providing a variety of challenging learning and leadership opportunities that encourage personal and skill development to enrich the YSU experience.

Penguin Productions

Penguin Productions is a student group under the Division of Student Affairs charged with assessing, initiating, implementing, and evaluating major events for almost 15,000 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 Elton John, Korn, Sugarland, and Danny Kane have come to campus or the downtown Covelli Centre.

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 330-941-2242.

Student Organizations

There are over 165 student organizations ranging from academic and social awareness to cultural, Greek, and Student Government. You are invited to take the first step and discover something that engages your interests. Student organization mailboxes are located in the Campus Recreation and Student Programming Office, Room 2100, Kilcawley Center.

The following is a partial list of the organizations available at YSU. For a complete searchable listing of registered student organizations at YSU, go to http://cfweb.cc.ysu.edu/stu_org/search/index.cfm.

Alpha Delta Sigma (ADS)
Alpha Kappa Alpha
Alpha Phi Delta Fraternity
Alpha Kappa Mu (AKM) (Honor Society)
Alpha Omega Pi
Alpha Phi Sigma (AFS)
Alpha Psi Omega (Honorary Dramatics Society)
Alpha Xi Delta Sorority (AXD)
Amateur Radio Club
American Institute of Chemical Engineers
American Marketing Association
American Society of Civil Engineers
American Society of Mechanical Engineers
Amnesty International
Beta Alpha Psi (Honor Society)
Campus Crusade for Christ
Catholic Student Association
Cheese Club
Chi Sigma Iota (CSI) (Counseling Honor Society)
Dance Club
Dance Ensemble
Delta Sigma Theta Sorority (DSQ)
Delta Zeta Sorority
Early Childhood Association (YSU ECA)
Greek Life

Greek Life at YSU affords students the opportunity to gain leadership experience and develop a positive social outlet. There are 16 Interfraternity, NPHC, and Panhellenic groups from which to choose.

Andrews Student Recreation and Wellness Center

The Department of Campus Recreation and Student Programming 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’s tallest. Volleyball, basketball, and other activities are situated within the multipurpose sports forum, which contains four courts. The spacious aerobic studios are home to many group exercise classes and are adjacent to the 1/8-mile indoor track, both on the top floor of the facility.

The Andrews Center also includes a tranquil meditation studio, full-functioning locker rooms, and the Wellness Resource Center. In addition to the Andrews Student Recreation and Wellness Center, the Department supervises programs in Beeghly Physical Education Center, Stambaugh Stadium, and the outdoor complex.

Participants must have a valid YSU ID card to use the facilities, equipment, services, and programs offered by the Department of Campus Recreation.

The CRSP department is one of the most popular places on campus to be employed. If you are interested in applying for a position, complete the department application found online at www.ysu.edu/reccenter. Submit a cover letter and résumé to the Department of Campus Recreation and Student Programming administration office, located in the Andrews Student Recreation and Wellness Center.

For additional information about the Department of Campus Recreation and Student Programming, please contact 330-941-3488 or visit: www.ysu.edu/
Student Government

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 six undergraduate colleges—the College of Arts and Sciences, the College of Business Administration, the College of Education, the College of Engineering and Technology, the College of Fine and Performing Arts, the College of Health and Human Services—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.

Student Publications

The University supports two student publications that provide an avenue for students to express their literary and artistic talents. Policies and procedures concerning student publications are prepared, reviewed, and applied by the Student Publications Committee.

The Jambar, a newspaper published twice a week, and The Penguin Review, a literary annual, are recognized student publications on campus.

Theater

All students in the University are invited to participate in theater production. As a cultural offering of the Department of Theater and Dance in the College of Fine and Performing Arts, the University Theater presents four major productions and two second-stage productions each academic year, plus a dance recital and numerous student-directed one-act plays.

The co-curricular production program is designed to support the theater training mission of the Department. As such, its staged performances reflect a wide range of dramatic expression, from historical masterpieces to representative works from the contemporary theater. Major productions are so selected that during a four-year span at YSU, a theater student will have the opportunity to work on a balanced blend of modern and classical plays and musicals.

Membership in the Eta Phi chapter of Alpha Psi Omega, the country’s largest and most active honorary dramatics society, is open to YSU students who distinguish themselves in theater and scholarship.

Major University Theater productions are presented in Bliss Hall, the performing arts complex which contains Ford Theater, a 400-seat standard proscenium theater, and the Spotlight Arena Theater. Besides accommodating major productions, the Spotlight Theater also serves as a laboratory for student-directed plays, acting and oral interpretation recitals, and various workshop activities.

With an emphasis on “learning by doing,” YSU theater 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. In the past we have hosted nationally known artists such as playwrights Edward Albee, Robert E. Lee, Karen Sunde, and Barry Stavis; makeup designer Irene Corey; Broadway set and lighting designers Fred Voelpel and David Segal; stage and screen dialect coaches David Stern and Paul Meier; Broadway director Christopher Martin; stage combat masters David Boushey and David Doersch; commedia dell’arte and Lecoq clown teacher Gale McNeeley; choreographer Billy Siegenfeld; and actors Earl Hyman, Neil Vipond, Kate Mulgrew, and Aiden Quinn.

Musical Organizations

Many campus musical organizations are open to all students of the University. For these, see the Dana School of Music in the College of Fine and Performing Arts section of this Bulletin.

Art Exhibitions

Student and faculty art exhibitions, including two annual graduating BFA exhibitions, are held in the John J. McDonough Museum of Art 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 Bliss Hall Gallery, located on the 2nd floor of the College of Fine and Performing Arts’ Bliss Hall, is used throughout the year for various student and faculty exhibitions, in addition to exhibitions of visiting artists.

The Student Art Association has for many years sponsored an annual exhibition of the work of Youngstown State University students. The work is displayed at the McDonough Museum of Art during the month of April, with awards given from various donors. Other area venues also exhibit student work, such as The Oakland Center for the Arts, Trumbull Art Gallery, and the Art Outreach Gallery at the Eastwood Mall.

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 and track and field. Women's intercollegiate teams compete in basketball, cross country, golf, 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.

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 Delta Sigma — Advertising
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 Honorary
Beta Alpha Psi — Accounting and Finance
Chi Sigma Iota — Counseling Honorary
Eta Sigma Gamma — Health Education Honorary
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
Order of Omega — Greek Letter Honor Society

Phi Alpha Theta — History Honorary
Phi Epsilon Kappa — Physical Education
Phi Kappa Phi — National Honor Society for achievement in all fields
Pi Mu Epsilon — Mathematics Honorary
Psi Chi — Honorary Psychology
Sigma Alpha Lambda — National Leadership and Honors Organization
Sigma Pi Alpha — Human Resource Management
Tau Beta Pi — Engineering Honor Society
Zeta Phi Alpha — Social Work Honor Society

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.

Dr. Cynthia 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.

Arby’s Leadership Scholarship — Outstanding Undergraduate Leaders

The Arby’s Leadership Scholarship, established in 1985, recognizes outstanding students for their contribution to and leadership in campus activities. Each year, up to seven students are awarded $600 each for the following fall semester tuition and fees.

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 Leaders Program**

The Emerging Leader Program provides 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 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.

**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. 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.

**Mentor of the Year**

This award honors the faculty or staff mentor, working through the Center for Student Progress, who has contributed the most during the past year to the development of a YSU student.

**Multicultural Student Services Leadership Award**

The Multicultural Student Services Leadership Award recognizes up to two minority students served through the Center for Student Progress who have achieved academic success and demonstrated effective leadership in promoting cultural awareness to the campus and community.

**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.

**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.

**Student Government Spirit Award**

Given by Student Government to a member of the campus or Youngstown metropolitan community who has displayed enthusiasm for the work of YSU Student Government 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 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 more than fifty 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**

**The Vindicator Award for Most Well-Rounded Student**

The Vindicator Award for Most Well-Rounded Student is one of several awards supported by The
Vindicator. This award recognizes a single outstanding student whose demonstrated leadership is supported by academic excellence.

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.

Who’s Who Among Students in American Universities and Colleges
A list of upperclass students and graduate students achieving outstanding academic and curricular records.

ALUMNI AND EVENTS MANAGEMENT
Serving a constituency of over 88,000 alumni, the YSU Office of Alumni and Events Management continues the tradition of excellence and pride among YSU graduates and serves as a lifelong connection to the University. Alumni and Events Management provides services to graduates of YSU and members of the Alumni Society. The office sponsors a variety of special events both locally and regionally.

The Office of Alumni and Events Management is housed in the oldest building on campus, originally the home of the Myron Israel Arms Family. It is located on the corner of Wick Avenue and University Plaza.

CAMPUS FACILITIES
Campus Development
During its earlier years the institution 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.

All-Sports Complex, Stambaugh Stadium
Located on an 18-acre site adjacent to Beeghly Physical Education Center, the All-Sports Complex includes Arnold D. Stambaugh Stadium and Beede Field, an artificial-turf sports field for football and soccer, with seating for more than 20,630 spectators; officials’ dressing rooms; varsity athletic offices; classrooms, racquetball courts, gymnasiums, weight rooms and facilities for various other health and physical education activities.

Atop the stadium and overlooking the city of Youngstown is the DeBartolo Stadium Club. The club provides meeting and dinner/party seating for 220 people and is available to campus and community organizations or individuals. For reservation information, please call the Office of Alumni and Events Management at 330-941-3497.

The complex also includes an all-weather 400-meter track with 1500 bleacher seats; facilities for all other track and field events; outdoor courts for basketball; and 10 hard-surfaced and lighted tennis courts.

Other Sports Facilities
Currently, in addition to Beeghly Center and the All-Sports Complex, the physical education, athletic and intramural programs use the athletic fields and well-equipped sports centers in Mill Creek Park; Evans Field, Pemberton Park, and Cafaro Field for baseball; Harrison Field in Smoky Hollow for softball; and for other activities, the Holiday Bowl in Struthers, and the Henry Stambaugh Golf Course on Youngstown’s North Side, and the par 3 golf course in Mill Creek Park.

Andrews Student Recreation and Wellness Center
The new Andrews Student Recreation and Wellness Center is described in detail on p. 63.

Beeghly Hall
The four-story, 96,600 square foot Beeghly Hall opened in the fall of 1998 to serve as the College of Education building.

On the main floor are the main north/south entrance and access, dean’s suite, Wilcox Curriculum Resource Center, Child Study Center and the 400-seat multi-purpose and multi-media Mckay Auditorium.

The new Beeghly College of Education building includes:
- an interactive distance-learning classroom
- a classroom of the future
- the Center for Teaching and Learning Technology
- Macintosh- and Windows-based computer labs
- the Curriculum Resource Center
- a counseling clinic
- a child-study center
- Testing Office

Beeghly Physical Education Center
In this building, first occupied in 1972, are the Department of Human Performance and Exercise Science and the Olympic sports offices and facilities. In addition to a gymnasium with seating for over 6,900 spectators and an olympic-size swimming pool, it contains faculty offices; 10 classrooms including 2 laboratories for research and kinesiology; physical education for handicapped; dance studio, a rifle
range, and a fitness center.

**Bliss Hall**

Housing the College of Fine and Performing Arts, Bliss Hall, completed in 1977, was named in memory of William E. Bliss, a prominent area industrialist. Its facilities include the 390-fixed seat Ford Theater, named for the Ford family; the 248-seat Bliss Recital Hall; an experimental theatre with flexible seating for up to 250; 80 music practice rooms, all equipped with Steinway studio or grand pianos; a Schlicker performance organ and two Flentrop practice organs; 30 faculty office-studios which can be used for music instruction; a band/orchestra room with a library; a photography studio with 32 enlargers; a metals studio; fully equipped drawing, printmaking, sculpture, and painting studios; a MIDI/graphics computer lab; a video editing suite; a Mac-based graphic design laboratory with dye-sublimation printer; ceramics studios with gas, electric, raku, and salt kilns; a complete shop with heavy equipment for working in three-dimensional design; art faculty office-studios; a student lounge/art gallery; and conference and seminar rooms.

Bliss Hall has recently seen major renovations to administrative offices. A new jazz rehearsal room, video production studios, and upgrades to art and sculpture areas were part of same renovation project. Opened in Fall 2005, a painting and sculpture addition included a foundry and metal fabrication, wood shop, sculpture and painting labs, offices, a 3D visualization lab and an exterior work court.

**Cushwa Hall**

Opened in 1976, this structure houses the Bitonte College of Health and Human Services, as well as Media and Academic Computing, WYSU-FM, the Peace Officer Training Academy, and the Department of Mathematics and Statistics. One of the largest buildings on campus, it contains 23 classrooms, 43 laboratories, 177 offices, and two lecture halls.

**DeBartolo Hall**

First occupied in 1978, DeBartolo Hall houses the departments of Economics, Philosophy and Religious Studies, Political and Social Science, Psychology, Sociology and Anthropology, and the Africana studies and women’s studies programs. Also housed in DeBartolo Hall is the Center for Peace and Conflict Studies. In this six-story structure are over 165 offices for faculty and staff, 5 student lounges and study areas, 15 classrooms, 15 laboratories, a computer terminal room, a 200-seat lecture hall with stage, and special varied laboratories for the Department of Psychology.

**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 $1,100,000 renovation project was completed in 1992. It houses the student newspaper, the Wee Care Day Care Center, the Rich Autism Center, Youngstown Early College, and general purpose classrooms.

**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.

**Alumni House** The Office of Alumni and Events Management 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. The YSU Foundation occupies the second floor.

**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 School of Graduate Studies and Research.

**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 Offices of Career and Counseling Services, Payroll, Accounting, Human Resources, Budget, Enrollment Management, and Records.

**Kilcawley Center**

Kilcawley Center is the community center of the University. The Center’s facilities and services include numerous dining rooms with a variety of diversified food service programs, lounges, 19 conference and multi-purpose rooms, bank, ATM machine, graphic services, candy counter, copy services, stage and entertainment areas, and a billiards recreation area, as well as a travel agency, FAX service, campus locker rentals, the University’s lost and found, and the Center’s reservations and conference services office. Kilcawley Center also includes the YSU Bookstore, a computer/word processing access center, U.S. mail drop, stamp machines, campus information center, catering offices, and the Center’s staff offices. Student organization mailboxes, and offices for Student Life, Student Government, and student organizations are located in Kilcawley, as are the Center for Student
Progress and the Center for International Studies and Programs.

**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 interlibrary 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 5th floor, and the Tech Desk is located on the 4th floor. The lower level of Maag houses the Writing Center, the Reading and Study Skills Center, and the English Language Institute.

**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 pedestrian walkway over Wick Avenue. The building contains 5 classrooms, 10 specialized computerized laboratories, and 23 faculty offices. The Office of Student Accounts and University Receivables, the Office of Financial Aid and Scholarships, and the Enrollment Center are located on the second floor. The Department of Computer and Information Systems is located on the third floor. The fourth floor houses the University’s main computer facilities and Computer Center staff.

**John J. McDonough Museum of Art**

The John J. McDonough Museum of Art, located on Wick Avenue between Bliss Hall and Meshel Hall, opened for the fall quarter of 1991. The 14,000 sq. ft. multi-level building exhibits faculty and student art work, which in the past has been displayed in the Bliss Art Gallery and the Kilcawley Center Art Gallery. It also exhibits works by artists from other universities as well as local and regional artists, and serves the academic program of the Art Department with shows and competitive exhibits. The museum has the following spaces and functions: installation gallery, traditional galleries, art lecture hall, work/preparation area, storage (vault area), public lobby and restrooms, offices, loading dock and receiving area, and the necessary mechanical and electrical equipment spaces.

**Moser Hall**

Moser Hall, a five-level structure completed in 1967, houses the College of Science, Technology, Engineering, and Mathematics. In addition to 49 laboratories, 11 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 the Public Service Institute, including the Center for Urban and Regional Studies and the Center for Human Resources Development.

**Service Buildings**

The buildings at various locations on campus that house specific services include:

**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, and Printing Services.

**Central Utility Plant** is located south of a 400 meter track on the north side of campus. The plant has the capability of producing steam and chilled water for University needs and is distributed through a system of underground tunnels and direct-burial utility lines.

**Smith Hall**

A medical building purchased in 1992 at 318 Fifth Avenue currently houses the Center for Working Class Studies, American Studies program, and Parking, Janitorial Services, and Recycling.

**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 Undergraduate 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 those of the President, Provost, Vice President for Administration, Vice President for Student Affairs, Development and Public Relations, Graduate School, Grants and Contracts, Associate Degree and Tech Prep Programs, Institutional Research, Assessment, University Marketing and Communications, the YSU Credit Union; Office of Equal Opportunity and Diversity; and the Board of Trustees’ meeting room.
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 31 laboratories, including a planetarium and a greenhouse, 9 classrooms, 66 academic offices, 53 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 the Office of the Dean, Center for Student Services and the Professional Practice Program, the MBA program, and the Larcia School of Accounting and Finance, the Department of Management, and the Department of Marketing.

In addition, the building houses 14 classrooms, a Financial Services Lab, a Professional Sales and Business Communication Lab, interview rooms, a 200-seat auditorium and a conference center. WCBA student organizations share office space in the building, and students have access to eight student team rooms, three networked computer labs, a quiet study lounge, and collaborative areas. Williamson Hall is also home to the Center for Nonprofit Leadership, the Williamson Center for International Business, the Ohio Small Business Development Center at YSU, and an Executive on Campus Office. The Gallery of Industry, Business, and Entrepreneurship, a spacious sky-lit atrium, and café with outdoor seating are also part of the 110,000 square feet facility.

LEED certified by the US Green Building Council, Williamson Hall is the first “green” building on the Youngstown State University campus.

UNIVERSITY/COMMUNITY OUTREACH

The Public Service Institute

The Public Service Institute was created by the University Board of Trustees in 1985 to coordinate, promote, and stimulate public service programs and activities offered by the University to the community.

At present, the Institute consists of the Center for Urban and Regional Studies and the Center for Human Services Development.

The Institute works with community organizations, as well as with University departments, to facilitate the extension of University resources into the community where they might be needed. In order to accomplish this, the Institute’s executive director is responsible for identifying public service needs in the community not now being met by University programs; assisting in developing public service programs to meet community needs; helping coordinate public services delivered to the community when two or more University departments are involved; promoting the Institute as a clearinghouse for disseminating information about University public service programs; and serving as a point of contact for the community when seeking University services.

Center for Urban and Regional Studies

The Center for Urban and Regional Studies is a research and technical assistance unit established by the Youngstown State University Board of Trustees in 1967 in recognition of the University’s obligation to contribute to the economy, the social well-being, and the environmental quality of the region.

The Center’s primary mission is to integrate professional staff, faculty, students, and other University resources to focus on issues and challenges of urban and regional development through an ongoing program of applied research, technical assistance, and training for local government, social service organizations, and business.

Organizational development and staff capabilities are directed toward the seven programmatic areas: reduction in poverty, local government assistance, economic development, urban and environmental planning, urban data services, human services development, and crime reduction.

The Center for Urban and Regional Studies is a federal depository for U.S. Census data. The Urban Data Services Office provides population, economic, and social data to academic users, government, business, and the public. In addition, the Data Services Office conducts spatial market research and public opinion surveys.

The Center for Urban and Regional Studies has developed an extensive geographic information system (GIS) capability, which provides statistically generated maps that can be produced from independent data files. Such products have been developed for demographic analysis, urban planning, market research and other uses which, in addition to being employed in traditional academic research, have served the banking industry, business, and local government.

YSU, through the Center for Urban and Regional Studies, is one of eight universities that participates in the Urban University Program (UUP). The UUP supports individual research projects for the Center, and has served as the impetus for establishing research networks that address various urban challenges in the state of Ohio. The YSU Center for Urban and Regional Studies participates in five such networks: Ohio Economic Development Information Network, Ohio Geographic Information Systems Network, Ohio Housing Research Network, Neighborhood Initiative Network, and the Urban Schools Research Network. The output from these research networks has resulted in local, statewide, and national policy recommendations, and national presentations and publications.
The Center is located in the Phelps Building and can be reached by phone at 330-941-3355.

Center for Human Services Development

In 1985, the University Board of Trustees established the Center for Human Services Development to serve as a community resource for health and human service organizations, and community leaders. Staff at the Center work with a community-wide spectrum of people to identify community problems and needs, develop solutions, and evaluate activities in the health and human services field.

The Center offers a variety of services, including: 1) establishing and maintaining networks or linkages among service providers and the broader community; 2) offering technical assistance for social service program evaluation; 3) providing training for agency directors, boards and staff members; 4) conducting community-wide needs assessments and sharing information; 5) helping organizations to develop strategic plans; 6) identifying and obtaining grants for community organizations who are working collaboratively to address community needs.

The Center is housed in the Phelps Building; the phone number is 330-941-3469.

Metropolitan Workforce Development

—coordinates the on- and off-campus delivery of non-credit classes throughout the service area at instructional settings including business, agency or community locations.

—provides a gateway to the educational resources of the University for students and works to form partnerships with regional workplaces. The Metropolitan College creates and delivers programs and services that meet when and where students need them—days, evenings, weekends, on and off campus, in a traditional classroom or out—and that use distance learning technologies to supplement other learning experiences.

The offices, classrooms and computer labs of the Metropolitan College are located at Southwoods Commons, just south of the Southern Park Mall at 100 DeBartolo Place, Boardman. For information about Metro College or any of the programs listed, please call 330-941-2465.

Workforce Development and Continuing Education

Metropolitan Workforce Development develops and administers courses and programs outside the traditional degree programs through continuing education, contract training, and the Center for Creative Retirement programs. Through non-credit course offerings at a variety of convenient times and locations, it makes academic programs, along with administrative and support services, available to both traditional and non-traditional students.

Through Metro Workforce Development, YSU seeks to make the lifelong process of education possible for the adult with family and work obligations.

In accordance with the Board of Trustees and Senate policy, Metro Workforce Development awards the Continuing Education Unit (CEU) for programs that meet the policy requirements. The CEU is a standard unit of measure (10 hours of participation in a Continuing Education course or seminar) that has been increasingly used by employers and professional certifying agencies to evidence educational attainment in non-credit post-secondary courses.

Workforce Development

The University’s educational resources are connected to the community through a workforce-based education initiative. Non-credit classes are offered to businesses for on-site training of employees. YSU’s Metro Workforce Development can deliver any training needed by area businesses and health care organizations. A professional consultant works with the companies to design and deliver training.

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.

Both workforce development and continuing education functions are manifested in the offerings described below.

Community Education Programs

—provide non-credit courses, seminars, and conferences to meet the personal development and leisure, general interest and recreation needs of the greater Youngstown area.

Health and Human Services Programs

—provide non-credit courses, seminars, and conferences developed to meet the needs of local, county, state and federal government, public and community agencies in areas such as allied health, criminal justice, family and consumer science, nursing home administration, day care centers, social work, education, mental health, medical transcription, food service and related topics.

Business and Management Programs

—serve this sector of the community, including courses, seminars and conferences in management,
supervision, accounting, purchasing, marketing, advertising, public relations, small business, construction, production and inventory control, real estate, secretarial and office management, banking and finance, insurance, labor relations, traffic and transportation and related areas.

**Engineering, Technical, and Computer Programs**
—serve this sector of the community with courses, seminars, and conferences in engineering, engineering technology, computer and data processing, information technology, and related areas.

**Teleconferences**
—link the educational resources of the world through satellite-delivered educational teleconferences in a variety of professional and academic fields to personnel in the Mahoning and Shenango valleys.

**Center for Creative Retirement**

**The College for the Over Sixty**
—a state-mandated program providing for the enrollment of Ohioans 60 years of age or older (who have been residents of the State for the preceding 12 months) in undergraduate credit classes on a space-available basis. Residents who meet eligibility requirements based on income level may earn credit toward a degree through the Over Sixty program.

**The YSU-ILR (Institute for Learning in Retirement)**
—an affiliate of the Elderhostel Institute Network, providing seniors with the opportunity to develop and conduct educational and social opportunities for the members of YSU-ILR.

**The YSU Elderhostel**
an approved program site through regional and national Elderhostel. Week long residential educational and social experiences are provided for registered participants.

**Edutravel**
—provides adults with the opportunity to explore cultural learning by visiting foreign countries to experience another land and culture. Travel-study programs in this series provide on-site lectures, seminars and field experiences and also provide visits to sites and facilities often not available to the average tourist.

**Community Counseling Clinic**
The Community Counseling Clinic (CCC) is a training clinic for master's degree level counseling students. The clinic's counselors and counselor 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. All counseling services provided to YSU students are free of charge. Services are provided to non-YSU students and their families for a greatly reduced fee; usually $1 a session, depending on income level.

The CCC offers a relaxed and confidential environment to discuss personal, relationship, academic, or work-related problems. Examples of several commonly presented issues 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.

In addition to clinical services, CCC staff members offer presentations and workshops on a variety of mental health issues. A small sampling of these topics includes enhancing self-esteem, dealing with stress, coping with loss, health and wellness issues, and drug and alcohol issues.

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. Additional information is available at http://www.ysu.edu/cse/counseling_clinic.shtml.

**The Ohio Small Business Development Center**
The Ohio Small Business Development Center at Youngstown State University (SBDC) program is part of the most comprehensive and effective business assistance network in the nation. Its purpose is to help existing businesses develop and retain a competitive advantage in the ever-changing global economy, and to help entrepreneurs realize their dream of business ownership. SBDC's enhance economic development throughout the region, the state of Ohio, and the country.

In Ohio, the SBDC program is a partnership of the Ohio Department of Development and the U.S. Small Business Administration. Locally the SBDC is hosted by Youngstown State University and the Williamson College of Business Administration, and serves Ashtabula, Mahoning, and Trumbull Counties.

The Ohio SBDC at Youngstown State University is one of the foremost business-assistance agencies in the region. Its mission is to provide professional, in-depth consulting and training to existing and new business ventures and to foster a strong and successful business community.

A professional staff, knowledgeable of the needs of small to mid-sized businesses is available for consulting. There is no fee for consulting services, and all project and company information is held in strict confidence.
The Center is housed in the Williamson College of Business Administration. The telephone number is 330-941-2140.

Telecommunication Services

WYSU-FM, 88.5 MHz

Youngstown State University owns and operates WYSU-FM, a 50,000 watt radio station that serves the Mahoning and Shenango Valley region with fine arts and news and information programming from its studios in Cushwa Hall. The station broadcasts a mix of news and classical music programs on its main analog channel, on its HD 1 (digital) channel, and as an Internet stream; as well as all-classical music on its HD2 channel and second Internet stream. The station broadcasts at 88.5 MHz in Youngstown, at 90.1 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.

Channels 45 and 49, 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.

SPECIAL ACADEMIC PROGRAMS

Leslie H. Cochran University

Scholars

The terms and criteria for these scholarships may have changed. Please check with the Office of Financial Aid and Scholarships for current information.

Leslie H. Cochran University Scholars are those students who have achieved an ACT score of at least 28 or SAT of at least 1860 (1240 old test) and have been selected to receive a full tuition, room-and-board scholarship for one year. All University Scholars may retain full support for the next year by earning a GPA of 3.5 for the current year.

All University Scholars are honors students and will follow the requirements of the Honors Program (see p. 76). In addition, Scholars are required to complete six hours of community service per academic year and to participate in the co-curricular aspects of the program. For more information, contact the Honors Office at 330-941-2772.

University Honors Programs

Two types of honors programs are available:

(1) The honors program permits any baccalaureate program to be taken, with additional requirements, for an honors diploma.

(2) Departmental honors programs are available in selected departments.

See p. 76 for more information about the Honors Program.

Individualized Curriculum Program

The student whose needs are not met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (ICP). This requires a student to design the curriculum suited to his or her particular background and needs, allowing alternative paths for reaching the currently offered undergraduate degrees.

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

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

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

The ICP does not provide for new or modified courses or degrees, or for changes in course prerequisites. Credit by examination may be sought, subject to approval through normal channels.

Detailed information is available from the director of the program, Room 104, DeBartolo Hall or on the web at http://www.ysu.edu/class/icp.shtml.

The Northeastern Ohio Universities Colleges of Medicine and Pharmacy

The Northeastern Ohio Universities Colleges of Medicine and Pharmacy (NEOUCOM) was established under the sponsorship of a consortium formed in 1972 by Youngstown State University, Kent State University and the University of Akron. Students admitted into the NEOUCOM BS/MD program are able to complete both their BS and MD degrees in as few as six years. Students spend two to three years of full-time study at one of the three consortium universities, complete the basic medical science coursework at the NEOUCOM Rootstown campus, and complete two years of clinical clerkships at the consortium teaching hospitals.

The BS phase of the BS/MD program of study integrates a liberal arts education with an accelerated and enhanced science curriculum. The program is designed to foster the development of intellectual curiosity, appreciation of diverse cultures, an historical framework for interpreting the present and creating the future, written and oral communication skills, the desire for lifelong learning, and other perspectives and skills characteristic of a liberal education. Secondly, it is designed to prepare students for success within a premier medical school curriculum, and to enhance the foundation necessary for an effective career as a physician in the 21st century.

Prospective YSU students interested in the NEOUCOM program can refer to the catalog under Admissions and under Combined B.S./M.D. Program in the College of Science, Technology, Engineering, and Mathematics section. A detailed description of the curriculum is available from the office of the dean of the College of Science, Technology, Engineering, and Mathematics or from the Office of Undergraduate Admissions or on the web at http://neoucom.edu/audience/about.

Interdisciplinary Programs

The University offers a number of interdisciplinary programs. More information on these programs may be found in the College of Liberal Arts and Social Sciences section of this Bulletin.

Center for International Studies and Programs (CISP)

The CISP is an integral part of the Division of Academic Affairs and is responsible for coordinating the international dimensions of the university, including international student and faculty services, study abroad and exchange programs, and the English Language Institute (ELI).

For more information on International Student Services, see “Center for International Studies and Programs” under Student Services; for more information about international student admission, see International Applicants on p. 20.

Study Abroad

Youngstown State University encourages students to engage in international study as part of their YSU education. Credits earned through study abroad at postsecondary institutions overseas must be approved in advance through the CISP in consultation with academic colleges and departments. Students studying abroad through YSU-affiliated programs and institutions maintain full-time status at YSU and remain eligible for state, federal, and institutional financial aid. Credits earned by foreign study through a YSU-approved study-abroad program 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 the host program in order to submit an application to study abroad.

• Scholarships for Study Abroad Most YSU tuition scholarships apply to study-abroad programs. In addition, YSU scholarships, including YSU international study incentive scholarships (up to $1,500 per semester), and the Resch Foundation Leadership Awards, are available specifically to support international study. The CISP also coordinates advising for the Fulbright, National Security Education Program (NSEP), and Rhodes Scholarships.

Study-Abroad Programs

• International Exchange Programs YSU maintains reciprocal exchange agreements with Lungwha University of Science and Technology in Taiwan (for intensive Chinese language study) and with
Youngstown State University

The English Language Institute

The English Language Institute (ELI) at YSU was established through the CISP and the Department of English to provide intensive study of English to students of the overseas institution for one or two semesters.

- **Affiliated Programs** Youngstown State University is a member of the Ohio International Consortium (see below), the Institute of International Education (IIE) and the College Consortium for International Studies (CCIS). These memberships provide YSU students with the opportunity to study in many countries throughout the study abroad programs administered by other member institutions. YSU maintains direct affiliate agreements with other high-quality study-abroad organizations, including the American Institute for Foreign Study (AIFS), Cultural Experiences Abroad (CEA), International Studies Abroad (ISA) and the Semester at Sea program.

- **The Ohio International Consortium (OIC).** OIC facilitates study abroad opportunities for students of the University System of Ohio by allowing matriculated students from any of Ohio’s thirteen state assisted public universities to participate in overseas programs irrespective of which campus maintains the program. Youngstown State University students may participate in study abroad programs through Bowling Green, Central, Cleveland, Kent, Ohio Shawnee, and Wright State Universities, Miami and Ohio universities, and the Universities of Akron, Cincinnati, and Toledo. OIC also supports and administers the Donald Nelson study-abroad scholarship.

- **International Field Study Courses** CISP 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 international field study courses have been conducted in the Bahamas, Brazil, China, England, Ireland, Guatemala, Mexico, India, Italy, and Turkey.

**College Tech Prep**

College Tech Prep is a national education program that combines college prep academics with advanced technological training that is career focused. The seamless career programs begin in the 11th grade and continue through an associate and/or bachelor degree. Students successfully completing the secondary portion of College Tech Prep and continuing in their career pathway at the post-secondary level may earn up to 16 free articulated college credits at YSU depending on their college major. For more information contact the Office of Associate Degree and Tech Prep Programs.

**Youngstown Early College**

Youngstown Early College, the first school of its kind at a public university in Ohio, helps Youngstown City School District students succeed in high school and make a successful transition to higher education. From YEC’s home base in Fedor Hall on the YSU campus, students take a combination of high school and university classes, graduating from high school with up to 60 hours of college credit. The YEC program operates in partnership with Eastern Gateway Community College and YSU. Youngstown Early College was developed with the assistance of the KnowledgeWorks Foundation and the Bill and Melinda Gates Foundation.

**Off-site Degree Programs**

**Allied Health and Community Health**

The University offers baccalaureate degree-completion programs in allied health and in public health on the campus of Lorain County Community College (LCCC). Allied health is also offered at Cuyahoga Community College (CCC). Students in these programs are registered at Youngstown State University and attend classes online or at the LCCC and CCC campuses. Courses are taught by YSU faculty members, using interactive video conferencing systems and are also offered online (web-based). LCCC and CCC provide support services and access to facilities, such as computer labs and the library, including Ohio LINK online research services. Students are advised by YSU faculty members, or a YSU academic advisor. Faculty members may hold office hours at the off-site campus, online, or through video
conferencing systems. Students communicate with faculty members using a variety of methods including online discussions, e-mail, video conferencing, phone, and face-to-face meetings.

**Criminal Justice**

Youngstown State University offers a baccalaureate degree-completion program in criminal justice on the campuses of Lorain County Community College (LCCC) and North Central State College (NCSC). Students in this program are registered at YSU and attend classes at the LCCC and NCSC campuses. Courses are taught by YSU faculty members, using interactive video conferencing systems. LCCC and NCSC provide support services and access to facilities such as computer labs and the library, including Ohio LINK online research services. Students are advised by a YSU academic advisor. Faculty members may hold office hours online, by phone, or through video conferencing systems. Students communicate with faculty members using a variety of methods including online discussions, e-mail, video conferencing, phone, and face-to-face meetings.

**Social Work**

YSU also offers a Bachelor of Social Work (BSW) degree through Lorain County Community College (LCCC). Students in this program are registered at YSU and attend classes at LCCC taught by YSU faculty members in a traditional classroom format. LCCC provides support services and access to LCCC facilities, such as computer labs and the library, including Ohio LINK online research services. Students are advised at LCCC or via e-mail by a faculty member from either YSU or LCCC.

**Master of Health and Human Services**

The complete Master of Health and Human Services (MHHS) degree program is offered on the LCCC campus. Courses are conducted via interactive distance learning and are also available online (web-based). Students in this program are registered at Youngstown State University and attend classes online or at the LCCC campus. Courses are taught by YSU faculty members, using interactive video conferencing systems and are also offered online (web-based). LCCC provides support services and access to facilities such as computer labs and the library, including Ohio LINK online research services. Students are advised by a YSU faculty member. Faculty members may hold office hours at the off-site campus, online, or through video conferencing systems. Students communicate with faculty members using a variety of methods including online discussions, e-mail, video conferencing, phone, and face-to-face meetings. [Specific information about the Master of Health and Human Services program is available in the graduate edition of the YSU Bulletin.]

**Off-Site Credit Programs—Metro Credit Education**

The Department of Metro Credit Education, working in partnership with University colleges and departments, school districts, various community agencies, businesses, and health care providers, offers opportunities for a variety of under-served populations to obtain college credit and degrees. The Department designs systems to deliver college credit opportunities to high school students; the unemployed; the underemployed; those needing more education for a variety of reasons; inmate-students at local correctional facilities; teachers and others needing graduate education; disadvantaged adults; and those who cannot access campus services and programs.

**Specific programs include:**

- **YSU Metro College at Southwoods Commons in Boardman**—Metro College provides an off-campus site conveniently located for many students. Course offerings vary, and are concentrated on the first- and second-year general education requirements applicable to most degrees. Saturday classes run every fall and spring semester. The location is also convenient for meetings, non-credit workshops, and seminars.

- **YSU College in High School (YSU-CHS)**—Since 2006, the College in High School program has offered college courses to high school students in their school as a regular part of their school day. High school students earn college credit that is fully transferable to any USO campus. Partnerships with high schools in the tri-county area make this opportunity possible.

- **The Learning Community**—This program is designed by and for first-generation college students. The Learning Community provides a supportive first-semester experience that helps students achieve college-level performance and build the resources needed to complete their goals.

- **Advanced Job Training (AJT)**—Metro Credit delivers core undergraduate courses at local correctional facilities offering course completion certificates via in-person teaching and interactive distance learning.

- **Off-Campus Cohorts**—Master’s degrees are offered at various locations throughout northeast Ohio. Concentrations include curriculum and instruction, literacy, and educational administration.

**University Honors Program**

*Ronald V. Shaklee, Director*

**Mission of the Honors Program**

The Honors Program is designed to create a continuing community of intellectual excellence. Exceptional students brought together from diverse disciplines and challenged with extraordinary courses and learning experiences outside the classroom can find in the program opportunities to develop their full cultural and intellectual potential, their unique academic achievements being recognized with an Honors diploma. Intended to foster interdisciplinary
interaction, self expression, experimentation, leadership, and academic excellence, the Honors Program serves as a tangible emblem of Youngstown State University’s commitment to education, teaching innovation, and cultural enrichment.

Course Credit Generation
Honors credit generation includes:

- special sections of traditional courses,
- seminars on special topics,
- contract honors courses as necessary,
- some advanced course work in areas outside the major,
- a common theme when possible,
- a capstone project or course in the senior year

Outcomes

Enrichment: Eligible students who desire an enriched education may take honors courses and thus participate in the “honors experience” without having formally applied to the Honors Program.

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

Baccalaureate Honors Program

I. To enter the baccalaureate Honors Program:

A. All Leslie H. Cochran University Scholars are enrolled in the Honors Program.

B. The following students qualify for the Honors Program upon application:

- Presidential and Dean’s Scholars
- Students in the top 15% of their graduating class and with at least a Composite ACT score of 26 (or combined SAT of 1760 new 1160 old)
- Current YSU students having completed at least nine semester hours of college-level study (not to include remedial courses) with a cumulative GPA of at least 3.4
- Students having completed at least 18 semester hours of college-level study accepted for credit at YSU (not to include remedial courses) with a cumulative GPA of at least 3.4.
- First-year students either in the top 15% of their graduating class or with a Composite ACT score of at least a 26 (or combined SAT of 1160), as well as other interested students, are encouraged to apply to the Honors Program.

II. To take honors courses, students enrolled in or eligible to enter the Honors Program and others approved by the instructor and director of Honors may take honors courses. All students are encouraged to enroll in honors courses.

III. To remain in good standing in the Honors Program, students must maintain a GPA of at least 3.4. Students falling below this level for two consecutive semesters will be dropped from the program. Reapplication to the Honors Program may be made once the GPA is restored to at least a 3.4.

IV. Students who complete no honors work for two consecutive semesters will be suspended from the program unless they can demonstrate, to the satisfaction of the director of the Honors Program, continuing progress toward the completion of honors graduation requirements.

V. Completing the Honors Program requires an average of three semester hours of honors work per term. In order to complete the program in a timely manner, honors students are expected to take:

(i) a minimum of six semester hours of honors work within their first 30 undergraduate hours;
(ii) at least 12 total hours of honors work within their first 60 hours;
(iii) at least 18 accumulated hours of honors work within their first 90 hours;

Any student unable to complete work in the Honors Program within this schedule must obtain written permission for delay from the Honors director in order to remain enrolled in the program.

Baccalaureate Honors Curriculum

(for students who enroll in the program after March 1, 2000)

Students who enter the Honors Program after Spring 2000 are required to complete at least 24 semester hours of honors work, including a senior thesis/project.

Further requirements include the following:

1. Of the 24 hours, at least twelve hours of honors general education courses distributed as follows:

(a) At least one honors course from three of the five general education requirements (GER) knowledge domains or basic skills (see pages 47-48).

2. At least six hours of honors work must be upper-division courses.

3. At least six hours of honors course work shall be taken from actual honors classes (opposed to contract honors credit).

4. At least one full credit hour of Honors Seminars or University Honors Seminars.

5. Senior Year Honors Thesis.
During the senior year, a capstone thesis/project in the major department is required. This is generally worth 1-3 semester hours depending upon the department. A faculty advisor, selected by the student and approved by the Director of Honors, will oversee this project and be assigned an appropriate workload adjustment.

The thesis should be bound and archived by the Library and stored in the Honors Office, Cafaro House. Certain projects other than theses could be presented in poster form or technologically recorded and similarly archived and stored. A public defense (or exhibition or recital) is required. The student should also be encouraged to make a formal presentation at a regional or national conference. Projects completed by individuals, teams, and teams of students working with community officials are all appropriate.

Further Considerations

- Students may join the honors degree program in their second or third year. However, the same requirements outlined above stand.
- Students with multiple majors have to complete only one thesis and 24 semester hours of honors coursework. However, the requirement (1b) above still needs to be satisfied as follows:
- A student dual majoring in the same general education area, for example Sociology and Political Science, would have to complete 6 hours of honors credit in general education knowledge domains outside the major.
- A student dual majoring in different general education areas for example—chemistry and English—would meet requirement (1b) by completing 6 hours of honors credit in any of the general education knowledge domains.

Honors Associate Program

The pre-college requirements for the Honors Associate Program are identical to those of the four-year Honors Program.

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

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

- Presidential and Dean's Scholars.
- Students in the top 15% of the graduating class and with an ACT score of 26 or a combined SAT of 1760 (new) 1160 (old).
- Current YSU students having completed at least 9 semester hours of college-level study (not to include remedial courses) with a cumulative GPA of at least 3.4.
- Students having competed at least 15 semester hours of college-level study accepted for credit at YSU (not to include remedial courses) with a cumulative GPA of at least 3.4.

First semester students who have met the criteria delineated above are encouraged to apply to the Honors Associate Program. To remain in good standing, students must maintain a GPA of at least 3.4.

Honors Associate Curriculum

Completion of the Honors Associate Program requires a minimum of 12 semester hours of honors work, as well as the completion of a capstone thesis/project. Further requirements include:

1. At least one honors course from two of the five general education knowledge domains (see page 48).
2. At least three hours of coursework from an actual honors class (opposed to contract honors credit).
3. At least one honors seminar.
4. Capstone project in the major.

Individualized Honors Curriculum (IHC)

An individualized honors curriculum (IHC) is available for high-achieving students who wish to alter any of the requirements listed above for either the associate or baccalaureate Honors Programs. However, the student should prepare a full proposal that includes: application for IHC (available from the Honors Office), reasons for choosing not to follow the prescribed honors program, goals of the IHC, exact courses and the course format (i.e. honors class, independent study, etc.), outcomes of the IHC, and estimated time to completion. The proposal must be signed by the department chair of the student's major, the thesis advisor, and the director of honors prior to being submitted to the Honors Committee. Final approval must be given by the Honors Committee before the IHC is recognized as an alternative to the requirements of the Honors Program.

Transfer of Honors Credit

1. Honors credit from other institutions will be accepted as honors credit and can be used to partially fulfill the requirements for the Honors Program at Youngstown State University provided that the honors credit was earned in a college-level course with a grade of B or higher.
2. Upon application, all students from other honors programs who were in good standing relative to their previous program will be admitted into the YSU Honors Program. Honors credit earned at other institutions will be accepted as honors credit and can be used to partially fulfill the requirements for honors at YSU subject to review by the honors director.
3. To graduate with an Honors diploma, a student
must complete at least 12 of the total 24 semester hours of honors course work from YSU, fulfill the depth and breadth requirements of the Honors program, and complete a senior thesis in the major discipline. (For more details, consult with the Honors director.)

4. Students who transfer into the YSU Honors Program have all the rights and privileges granted to its members, e.g., honors housing, priority registration, use of honors facilities, etc.

**Documentary Recognition of Success in the Honors Program:**

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

2. Completion of the Honors Program. When a student's record satisfies the director of the Honors Program that the student has successfully completed the requirements of the Honors program, the following notation will be entered on the student's record: “Has successfully completed the Honors Program,” and upon graduation the student will be awarded the Honors Medal, special recognition in the commencement program, and an Honors diploma.

**Benefits of Joining**

- Students enjoy the benefits of early registration each semester they are actively participating;
- Honors students are eligible to live in the Honors Program's living and learning center, Cafaro House;
- Course material is covered in much greater depth than in a traditional class. Therefore, honors students receive a “value-added” education;
- Members may use the computer facilities in Cafaro House. The facility is open 7 days a week, 24 hours a day; nonresidents must follow residence hall visitation policy;
- As reflected by the transcript and diploma, an Honors student has shown the desire and ability to go above and beyond what is traditionally required by the University. This is particularly impressive to graduate and professional schools and potential employers;
- High-achieving students benefit from the experience of taking classes and learning with some of the most intelligent students in the nation;
- It is a gift that a person who loves learning gives to oneself and to others.

**Courses of Instruction**

The Nature of an Honors Course

When compared to a non-honors course, an honors course should:

- cover material in greater depth
- encompass more complex concepts, stressing analysis
- place greater emphasis on communication skills
- include discussion of applicable theories in the field
- require of the students more preparation and class participation, including more ambitious papers or projects, as well as a greater share of responsibility for learning
- involve more state-of-the-art technology whenever possible and appropriate

**Honors Program Courses**

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

1599. *Special Topics.* An introductory-level examination of some topic appropriate for honors study. Typically team-designed. In certain cases, students may arrange to have the course counted toward their major by negotiation with the major department. With approval of the director of Honors, may be repeated for credit with different topics. Prereq.: Admission to the Honors Program or permission of instructor and director of Honors. 1 s.h.

2601, 2602. *Honors Seminar.* An interdisciplinary seminar series dealing with topics appropriate to students in the honors program. The subjects include, but are not limited to, creativity, the organization and function of Society, the total human being, critical thinking, current events, etc. Prereq.: Admission to the Honors Program or permission of instructor and director of Honors. 3 s.h.

2699. *Special Topics.* A close examination of some topic appropriate for lower-division honors study. Typically team-designed. In certain cases, students may arrange to have the course counted toward their major by negotiation with the major department. With approval of the director of Honors, may be repeated for credit with different topics. Prereq.: Admission to the Honors Program or permission of instructor and director of Honors. 1-2 s.h. each

3701, 3702 *University Honors Seminar.* A critical investigation of selected ideas underlying civilization, embracing and integrating the particular studies of science, society and the humanities. Prereq.:
Admission to the Honors Program or permission of instructor and director of Honors. 1-2 s.h. each

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

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

4899. Special Topics. An advanced examination of some topic appropriate for honors study. Typically team-designed. In certain cases, students may arrange to have the course counted toward their major by negotiation with the major department. With approval of the director of Honors, may be repeated for credit with different topics. Prereq.: Admission to the Honors Program or permission of instructor and director of Honors. 3 s.h.

Contract Honors Courses

Any course other than remedial or high school remedial courses may be taken for honors credit with the concurrence of the faculty teaching the class and the approval of the honors subcommittee.

This option does not involve more credit hours for a course, but rather credit of a different kind. Proposals should involve not simply more work on the part of the student, but rather work in greater depth. Proposals are initiated by the student and instructor, then carefully reviewed by the department chair. Chairs certify that by the standards of the discipline, proposals meet the criteria listed on the contract form. The further approval process is outlined on the form “Request for Contract Honors Credit” available in the Honors Office and on the Honors homepage.

Remedial courses are not suitable for contract honors. Contracts are not normally approved when an honors section exists for the same course (e.g. English 1551). Projects in the historiography of any discipline are acceptable.

Contract proposals must be submitted with proper signatures by the due date listed on the contract honors form (and preferably before registration).

Grades are reported to the Honors director, using the form “Grade Report for Contract Honors.” This form, along with the document “Contract Honors Approval,” will be mailed to the sponsoring faculty member after the project has been accepted by all appropriate individuals.

Administration of the Honors Program

The program is operated by the director of Honors under the jurisdiction of the Honors Committee of the University Senate.
The Warren P. Williamson, Jr. College of Business Administration

Betty Jo Licata, Dean

The mission of the WCBA is to prepare undergraduate and MBA students for productive and fulfilling careers as leaders in business, government, nonprofit organizations, and society. Our programs emphasize a student-centered, teaching/learning process with a focus on the application of theory to practice and the intellectual and professional development of our students. We engage in faculty scholarship that contributes to management practice, advances the discipline, and enhances the teaching/learning process.

Our students, faculty, and staff contribute to the university, profession, and the economic development of the region. Internships, business projects, guest speakers, and community service projects are a few of the important ways in which our students enhance their learning experiences.
The undergraduate majors in the Williamson College of Business Administration (WCBA) are housed in one of three departments. These are:

- The Lariccia School of Accounting and Finance
  Majors: Accounting, Finance, International Accounting and Finance

- The Department of Management
  Majors: General Administration, Human Resource Management, International Management, and Management Information Systems

- The Department of Marketing
  Majors: Advertising/Public Relations, International Marketing, Marketing Management

The Department of Economics is housed in the College of Liberal Arts and Social Sciences.

The WCBA also houses the WCBA Center for Undergraduate Student Services, which includes the director, two professional academic advisors, and the professional practice program/internship coordinator. Other college-based centers include the Center for Nonprofit Leadership, the Williamson Center for International Business, the Monus Entrepreneurship Center, and the Ohio Small Business Development Center at YSU.

Degrees

The Williamson College of Business Administration offers courses leading to the Bachelor of Science in Business Administration (BSBA) degree, with a major in

- Accounting
- Advertising and Public Relations
- Business Economics
- Finance
- General Administration
- Human Resource Management
- International Business
- Management Information Systems
- Marketing

The WCBA also offers an Associate in Labor Studies, Associate in Arts in Business Administration, and Associate in Technology Study. At the graduate level, the WCBA offers the Master of Business Administration (MBA) degree.

Accreditation

The Williamson College of Business Administration’s bachelor’s and master’s programs are fully accredited by the AACSB International—The Association to Advance Collegiate Schools of Business, the premier accrediting agency for programs in business administration. Fewer than 25% of business programs in the U.S. have AACSB accreditation.

BSBA Goals

The business curriculum is designed to provide all majors with a strong foundation in the general areas of business, as well as an opportunity for specialized study. In addition to the business core courses and the major courses, students must complete the University’s general education requirements. Students working toward the Bachelor of Science in Business Administration will develop the following competencies in order to become successful leaders in their fields:

BUSINESS PROFESSIONAL SKILLS

Analytical Skills

The ability to organize and manipulate quantitative and qualitative data for business problem solving.

Information Management

An ability to seek, interpret, validate, and apply both current and innovative information sources and technology.

Communications

The ability to communicate effectively in a professional context.

Leadership and Interpersonal Skills

The ability to lead and work effectively in teams.

BUSINESS PROFESSIONAL BEHAVIORS

Ethics & Social Responsibility

An understanding and appreciation of the importance of ethical conduct in business and responsibility to multiple stakeholders in society.

Business Professionalism

An understanding and appreciation of the behaviors, traits and characteristics of successful business professionals.

Entrepreneurship

An understanding and appreciation for the attitudes and skills required for the creation of new ventures

BUSINESS PROFESSIONAL KNOWLEDGE

Accounting

An understanding of financial statements and their use in decision-making.

Finance

An understanding of the relationship between risk and return, time value of money, and pro forma analysis to enable decision-making.
Marketing
An understanding of customer needs and the process of developing, pricing, distributing and promoting products and services that provide customer value.

Management
An understanding of the management function and the skills required of managers.

Operations
An understanding of the process of creating value through the production of goods or services.

Global Business Environment
An understanding of the multiple and pervasive environmental factors affecting the international operations of firms.

Strategic Management
A fundamental understanding of how and why some firms achieve and sustain superior performance while others fail.

Honor Societies
The Williamson College of Business Administration recognizes students’ outstanding academic performance through initiation into Beta Gamma Sigma, the national honor society for AACSB International-accredited business schools. Students who qualify for Beta Gamma Sigma are inducted in the spring of each year. To be eligible, students must be in the upper 10 percent of the junior class, the upper 10 percent of the senior class, or the upper 20 percent of the graduating master’s class.

Qualified business students are also eligible for membership in Phi Kappa Phi, a national honor society that recognizes superior scholarship in all academic fields, and Beta Alpha Psi, the national honors fraternity for accounting, finance, and information systems majors who have completed one upper level course, have a 3.0 accounting, finance or information systems GPA, and have a 3.0 overall GPA.

Center of Excellence in International Business
The Williamson College of Business Administration (WCBA) Center of Excellence in International Business integrates the strong and varied international business activities of the Williamson College of Business Administration, the Williamson Center for International Business (WCIB), the Emerging Markets Initiative (EMI), and the Ohio Small Business Development Center at YSU to accelerate the attainment of goals related to international business education, research in international business, and both local and regional economic development.

The goals of the WCBA Center of Excellence in International Business are designed to not only advance our work in teaching, scholarship, and outreach services, but also to bring increased impact through the integration of global business issues across the curriculum and in the business community. Specifically, the goals of the Center of Excellence in the International Business (CEIB) are to:

1. Create a global learning environment that enhances the development of students’ global competencies through curricular, professional, and co-curricular initiatives and innovations.
2. Generate and expand research that advances knowledge and practice in international business (IB) and supports the economic development of northeast Ohio.
3. Accelerate the development of academic and business partnerships that support our educational and economic development goals.
4. Expand the Emerging Markets Initiative (EMI) and solidify our unique niche of expertise in emerging markets.
5. Expand the IB training, research, and consulting services that strengthen the ability of businesses to compete in a global marketplace.

Monus Entrepreneurship Center
The goal of the Nathan H. and Frances T. Monus Entrepreneurship Center is to spur economic development in the Mahoning Valley. To achieve this goal, the center concentrates its efforts in three major areas. The primary focus of the center is the development of entrepreneurship initiatives and programs, both undergraduate and graduate, within the Williamson College of Business Administration. The center has developed a “Certificate in Entrepreneurship” that assists students with transforming marketable ideas into start-up businesses and emerging entrepreneurial ventures.

A secondary focus is to communicate the entrepreneurship theme throughout the community. This is accomplished by hosting entrepreneurship programs for adults interested in entrepreneurship and for students in grades 6-12. Lastly, the Center acts as an entrepreneurship resource center for the University community.

Center for Nonprofit Leadership
The Center for Nonprofit Leadership, housed in the Williamson College of Business Administration, provides academic programming and professional development experiences for students interested in pursuing a career in nonprofit management and/or serving the community. The Center offers the nationally recognized Nonprofit Leadership Alliance (formerly American Humanics) Certification in Nonprofit Management and Leadership as well as the Nonprofit Leadership Minor. Both the minor...
and certificate can be combined with any major on campus. The nonprofit sector is the fastest growing employment sector in our country, and offers a wide-range of employment opportunities.

Also available through the Center for Nonprofit Leadership is the Student Nonprofit Leadership Organization (SNLO) and the Service Learning Citizen Scholar Program. SNLO is an organization for currently enrolled students receiving a baccalaureate degree. The organization provides professional nonprofit management experiences through site visits, guest lecturers, and the planning of fundraising events. The Service Learning Citizen Scholar Program recognizes students who have completed multiple service-learning opportunities through academic coursework.

The Ohio Small Business Development Center at Youngstown State University

The Ohio Small Business Development Center (SBDC) at YSU is an important part of the Williamson College of Business Administration. The SBDC helps entrepreneurs realize their goals of business ownership and expansion. The SBDC assists existing businesses in developing and retaining their competitive advantages. Counseling, training, research, technology transfer, and export assistance are offered in the start-up, operation, and expansion of small to mid-size businesses. Emphasis is placed on the use of strategic business planning and basic principles of enterprise development. The SBDC serves clients in Ashtabula, Mahoning, and Trumbull counties, with offices in Youngstown, Warren, Jefferson, and Ashtabula.

The SBDC is partially funded by the Ohio Department of Development and the U.S. Small Business Administration and is one of over 950 such centers in the United States.

WCBA students are involved with the SBDC through class projects, independent studies, and internships. Collaboration between the SBDC and the WCBA provides a great benefit for students, faculty, and small businesses.

Beyond the Classroom

An important dimension of a student’s preparation is the learning that takes place beyond the classroom. In the WCBA, opportunities for leadership development, networking, and professional enhancement are extensive.

Student chapters of national professional organizations provide an excellent means for students to develop leadership skills, network with professionals in their chosen career fields, and increase their exposure to the business world. WCBA organizations are actively involved in public service such as the Voluntary Income Tax Assistance (VITA) program, and Dare to Care Day; national competitions; and fund raising activities.

Students are also involved in the WCBA through the Student Leadership Council which is composed of 25 WCBA students. These students, who meet monthly with the dean, serve as representatives of the WCBA student body and as ambassadors for the College.

Through the Williamson Symposium Series, and the Executive in Residence Program, students are able to interact with business people who are leaders in their fields. These programs provide a forum for the exchange of ideas and give an added dimension to the education of our students.

Rigorous academic preparation, career-related work experience, and involvement in activities beyond the classroom create a valuable combination that positions business majors for success in the business world.

Professional Practice Program

In addition to broad academic training through the WCBA degree programs, students can acquire professional experience through the Professional Practice Program. Internships and cooperative education programs are designed to benefit both students and sponsoring organizations. Participating students have the opportunity to supplement their classroom learning with actual hands-on business experience.

Through internships and cooperative education, students can earn academic credit toward their degrees and, in most cases, be paid for their work. Students work for public accounting firms, state and local government, public relations firms, Fortune 500 corporations, marketing agencies, brokerage firms, banks, investments groups, nonprofit agencies, and retail establishments.

To be eligible for internship positions, students must have a minimum 2.50 grade point average, completed prerequisites in their major beyond the core, and meet the requirements of the sponsoring organization. Internships are typically fifteen weeks in length or a minimum of 225 hours. Cooperative education (co-op) students work for one employer a minimum of two semesters before graduation.

To prepare students for their internships, the Professional Practice Program offers workshops, such as internship orientation/debrief sessions, resume writing, interviewing techniques, networking, targeted career search, business and dining etiquette, and a professional development course.

The program also offers an Interview Day during the fall and spring semesters for students to interview with employers for employment opportunities. Both students and employers register online with our resume retrieval/job search database to schedule interviews. Additional information concerning programs and sponsoring organizations is available from the WCBA Office of Professional Practice located in the WCBA Undergraduate Advisement Center.
Career Services

YSU maintains an Office of Career Services to help students plan and explore careers, aid them in resume and letter-writing and help them prepare for job interviews and placement. Job openings are posted on their PenguinLink online system for current students and alumni. These include full- and part-time, seasonal and summer employment opportunities. Several hundred corporations, businesses, schools, agencies and government units visit Career Services each year to interview students and alumni. The Office of Career Services also sponsors job expos during the spring and fall semesters. A Career Services placement coordinator focuses on assisting business majors with their professional job search plans and has an office in Undergraduate Student Services in the WCBA.

Facilities

The Williamson College of Business Administration moved into a new 110,000 square-foot, $34.3 million building in fall 2010. The College's new home is a LEED-certified state-of-the-art facility that provides enhanced classrooms and learning spaces for students and provides a variety of places for students to study and meet with team members, friends, and the business community. The building will include 14 classrooms, faculty offices, the Center for Undergraduate Student Services, a financial services lab, professional sales lab, computer labs, team rooms, student organizations office, a café, student entrepreneurship lab, auditorium, conference center, and outreach centers. Designed to link the campus with the downtown community, the new building will be a valuable resource not only for WCBA students but also for the regional community.

Courses of Instruction and Curricula

Course descriptions can be found in a separate section in the back of this Bulletin.

Each student is charged with the responsibility of checking the catalog for prerequisites for each course he or she wishes to take. This will ensure minimum changes of registration on the student's behalf and will alleviate many problems associated with scheduling.

Requirements for the Major

The courses required for the various majors are listed by each department. The combined major, advertising and public relations, is described in the Department of Marketing listings. The combined major in general administration is described in the Department of Management listings.

Bachelor's Degree Program—BSBA

New Applicants (Pre-Business)

First-semester freshmen who are admitted to Youngstown State University will be accepted into the Williamson College of Business Administration as pre-business majors.

Transfer students both within and outside of Youngstown State University must have a minimum grade point average of 2.00 to transfer into the WCBA as a pre-business major.

Satisfactory progress toward the completion of the pre-business course requirements must be made before the completion of 33 semester hours of course work in order to retain pre-business status in the WCBA. Students who have not made satisfactory progress within this period of time must consider transferring to another college within the University. An advisor is available for consultation regarding other majors within the University.

Upper-Division Requirements/Declared Business Major

Upon the completion of 63 semester hours of course work (inclusive of Writing 1551, Mathematics 1552, Economics 2610, 2630, 3790, and Accounting 2602, 2603 with grades of “C” or better), students who wish to be considered for upper-division standing in the WCBA must apply with an academic advisor in Room 408 of Williamson Hall. Students must have a 2.5 cumulative grade point average to be admitted to upper-division standing.

Students are restricted from registering for most upper-division business courses until a major has been declared.

BSBA Degree Requirements

The student has the responsibility for seeing that all graduation requirements for the degree are satisfied. For the Bachelor of Science Degree in Business Administration, these are:

Courses and other requirements of the University. These are explained in the Academic Policies and Procedures section, and are listed below.

The curricula leading to a degree in business require a minimum of 124 semester hours. This degree may be earned in eight semesters if students average 16 hours per semester.

Admission to Pre-Business does not guarantee admission to upper-division status with a major in business.

The student whose needs are not completely met by existing programs may wish to investigate and apply for the Individualized Curriculum Program. See the Academic Policies and Procedures section.
ROTC students are permitted specific modifications of the requirements as explained in the Academic Policies and Procedures section.

**Pre-Business Tool Course Requirements**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550 Writing I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551 Writing II</td>
<td>3</td>
</tr>
<tr>
<td>BUS 1500 Exploring Business</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1552 Applied Math for Mgt</td>
<td>4</td>
</tr>
<tr>
<td>ECON 2610 Principles I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2630 Principles II</td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirements</td>
<td>9</td>
</tr>
</tbody>
</table>

**SECOND YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 2602 Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 2603 Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MGT 2604 Legal Environment of Business I</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3790 Business &amp; Econ Stat</td>
<td>5</td>
</tr>
<tr>
<td>CMST 1545 Comm Foundations</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625 Intro to Professional Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>General Education Requirements</td>
<td>6</td>
</tr>
<tr>
<td>Lab Science</td>
<td>4</td>
</tr>
</tbody>
</table>

*WCBA tool courses and English 1551 must be completed with a grade of “C” or better and student must possess an overall GPA of 2.5 or higher before core course permits are issued. CR/NC options may not be used in tool, core, and major courses.

A grade of “C” or better must be earned in all courses taken in the core, major and business electives.

**Upper-Division Core Requirements/ Declared Major**

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>‡‡FIN 3720 Business Finance</td>
<td>3</td>
</tr>
<tr>
<td>‡‡MGT 3725 Fund of Management</td>
<td>3</td>
</tr>
<tr>
<td>‡‡MKTG 3702 Intro to Bus Professionalism (must be taken concurrently with MKTG 3703)</td>
<td>1</td>
</tr>
<tr>
<td>‡‡MKTG 3703 Mktg Concepts/Practice</td>
<td>3</td>
</tr>
<tr>
<td>‡‡MGT 3725 Fund of Management</td>
<td>3</td>
</tr>
<tr>
<td>‡‡MKTG 3761 Info Systems for Mgt*</td>
<td>3</td>
</tr>
<tr>
<td>‡‡MKTG 3789 Operations Mgt</td>
<td>3</td>
</tr>
<tr>
<td>‡‡FIN 4839 International Acct &amp; Fin or ‡‡MKTG 4890 International Business or ++MKTG 4845 International Mkt</td>
<td>3</td>
</tr>
</tbody>
</table>

**FOURTH YEAR**

<table>
<thead>
<tr>
<th>Course</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGT 4850 Strategic Management</td>
<td>3</td>
</tr>
<tr>
<td>Major requirements and electives — see academic advisors.</td>
<td></td>
</tr>
<tr>
<td>Non-business electives — semester hours vary according to major.</td>
<td></td>
</tr>
<tr>
<td>Total Hours</td>
<td>124</td>
</tr>
</tbody>
</table>

*‡‡WCBA tool courses and English 1551 must be completed with a grade of “C” or better. The student must possess an overall GPA of 2.5 or higher before he or she can register for core courses.

*A grade of “C” or better must be earned in all core, major, and business elective courses. CR/NC options may not be used in tool, core, and major courses.

**Other Degree Requirements**

- Completion of the appropriate number of semester hours.
- Upper-division status (completion of 63 semester hours of credit; completion of all tool courses with a grade of “C” or better; application must be made in the advisors’ office).
- Minimum cumulative GPA of 2.5.
- Major requirements (a grade of “C” or better must be earned in all courses taken in the major and business electives).
- Course-level requirements (completion of sixty (60) semester hours of courses must be completed at the 2000 level or higher, of which forty-eight (48) semester hours must be at the 3000 level or higher).
- At least 50 percent (62 hours) of the total degree requirements must be taken in nonbusiness courses. Up to nine hours of economics courses can be counted as nonbusiness.
- Residence requirement.
- Application for graduation.

**BSBA (International Business)**

Students interested in careers in international business may pursue the BSBA degree with a major in international accounting and finance, international management, or international marketing. All business majors are encouraged to pursue one or more global learning experiences including study abroad, international business study tours, and international internships.

Students in the IB majors must complete:

1. The general education courses including Intro to World Religions (REL 2601)
2. The BSBA tool and core courses described above
3. A foreign language sequence 2600 and 2605
4. The International Business core: International Business (MGT 4890), International Marketing (MKT 4845), and International Trade (ECON 5811) or International Finance (ECON 5812)
5. And completion of one of the following concentrations:

**International Accounting & Finance Concentration**

(126 Hours for the Degree)

Select 21 hours from the following:

ACCT 3701, 3702, 3711, 4813, FIN 3721, 3730, 4835, 4836, 4839
International Management Concentration
Select 9 hours from the following:
MGT 4880Q, 4880M, 4880E, 4880I, 5860
Select 6 hours from the following:
MKTG 4845, FIN 4839, ECON 5811, MGT 4880I
Management Requirements: MGT 3750, 4890
Management Upper Division Electives

International Marketing Concentration
(126 Hours for the Degree)
Select 21 hours from the following:
MKTG 3709, 3720, 3726, 3740, 3757, 4815, 4825, 4846, 4848

LARICCIA SCHOOL OF ACCOUNTING AND FINANCE
330-941-3084
Professors Claypool, Law, Shaffer (Chair), Stout, Tackett, Wolf, Woodlock; Associate Professors Chen, Huber; Assistant Professors Counts, Petruska, Yang.

Learning Outcomes
The student learning outcomes for majors within the Lariccia School of Accounting and Finance are as follows:

• Students will be able to identify, formulate and solve discipline-specific problems within the context of business, ethical, and societal constraints;
• Students will learn to function and communicate (in writing and orally) both individually and within multidisciplinary teams;
• Students will develop enhanced technology skills by being exposed to assignments requiring advanced computer/spreadsheet knowledge, expanded presentation activity (e.g. PowerPoint in the oral-intensive courses), and required analysis of financial statements;
• Students will be given opportunities to work with and be exposed to the business community and professionals through internship opportunities, student organizations and social functions;
• Students will obtain a solid understanding of professional and ethical responsibilities and a recognition of and an appreciation for the need to engage in life-long learning.

Many of these learning outcomes will be developed both within the respective major and across the business and general studies curriculum. Students will be expected to be engaged in their studies and seek out assistance when needed to assure that these learning outcomes are met.

ACCOUNTING
Accounting can be described as a service activity, a descriptive/analytical discipline, and an information system. As a service activity, it provides users with quantitative financial information to aid in making business-related decisions. As a descriptive, analytical discipline, it identifies those economic transactions affecting an economic entity and describes—through measurement, classification summarization, and reporting—the impact of the transactions on the entity. As an information system, accounting communicates financial information to interested parties. Accountants are involved in one or more of these areas.

Career Opportunities
The demand for accounting graduates continues to grow as corporations develop, tax laws change, and new government regulations are introduced.

All types of organizations, public and private, require accounting services in their operations. Private accounting includes such areas of specialization as financial accounting, cost accounting, systems, managerial accounting, internal auditing, tax accounting, budgeting, and financial analysis. In public accounting, the major specializations include external auditing, management advisory services, tax accounting, and planning.

Employers of accountants include public accounting firms, banks, retail and wholesale businesses, manufacturers, tax firms, pension funds, foundations, hospitals, universities, churches, government agencies, and consulting companies. Self-employed accountants may set up their own offices and work for private clients.

Student Organizations
The Institute of Management Accountants Student Chapter at YSU operates under the sponsorship of the Institute of Management Accountants, the world’s largest association of management accountants and financial managers. Beta Alpha Psi, an honorary organization for financial information professionals, is open to accounting, finance, and management information systems majors with a 3.00 or higher GPA.

The Student Invest Fund allows students to work with faculty and develop investment strategies using actual university endowment funds. Accounting students are actively involved in public service such as the Volunteer Income Tax Assistance (VITA) program that can be taken for course credit.

Requirements to sit for the Certified Public Accountants (CPA) Exam
Effective with the year 2000, Ohio residents wishing to sit for the Certified Public Accountant (CPA) exam are required to have completed 150 semester
hours (225 quarter hours) of education. To assist our students in meeting that requirement and to enhance their overall education and preparation for the exam, the Master of Business Administration (MBA) degree with a specialization in accounting is strongly recommended in conjunction with the bachelor’s degree. With proper planning and coordination, a student can complete both a B.S. and MBA in five years (for example, students may take MBA courses in their senior year which would be counted towards the graduate degree).

In order to complete both undergraduate and graduate degrees in a timely manner, undergraduate students should apply to the MBA program (which includes successful completion of the GMAT exam) upon completion of 90 semester hours (approximately 135 quarter hours) including intermediate accounting courses. Please consult any of the following: Undergraduate Advisement office, MBA office, or the Lariccia School of Accounting and Finance.

Curricula

For University requirements, lower-division tool requirements, and upper-division core requirements, see pre-business course requirements at the beginning of the WCBA section.

Accounting Major
(124 Hours for the Degree)
ACCT 3701, 3702, 3709, 3711, 4801, 4808, 4813
MGT 3714
Business upper-division electives

Accounting Minor
Courses include: ACCT 2602, 2603, 3701, 3702, 3711, plus 1 to 3 s.h. of accounting electives.

FINANCE

Due to rapid technological change, finance is one of the most exciting areas of business as well as an expanding career choice. A career in finance offers flexibility, security, and a wide choice of specializations. Corporations, governments, nonprofit institutions, and individuals all require the expertise that a financial professional can offer. During this era of restructuring, the unique analytical skills that a financial specialist provides can translate into job security as well as additional opportunity.

The role of finance professionals is to provide information and analyses to organizations and individuals that will result in superior decision making. A career in finance requires careful preparation, an aptitude for practical analytical skills, and the ability to recognize and communicate potential remedies and solutions to a wide variety of problems.

Career Opportunities

Areas of specialization in finance include investment analysis, insurance, financial planning and analysis, banking, credit analysis, cash management, and corporate finance. The rapid expansion of international business and investments has led to a shortage of finance professionals to work in this area both domestically and abroad. The aging of the “Baby Boom” generation together with changing pension regulations increases the demand for professionals specializing in retirement planning and investments. A course and a student organization allowing students to assist in making real investment decisions with university endowment funds.

Finance Major
(124 Hours for the Degree)
FIN 3721, 3730, 4835, 4836, 4853
Business upper-division electives

Finance Minor
Suggested courses include:
FIN 3720, 3721, 3730, 4835, 4836, or 4853

DEPARTMENT OF MANAGEMENT
330-941-3071

Professors Guzelle, Karpak, Kasuganti (Chair), Katz, 
Psenicka, Russo; Associate Professors Eunni, Kos, Peng, 
Rakestraw, Vendemia. Assistant Professors Bateman, 
Breland, Han, Pandian.

Management is the study of the process of working with and through others to solve practical problems and reach organizational goals. Programs offered by the Department of Management are designed to develop and enhance the skills and knowledge base necessary for successful managers. Effective managers must be able to meet the challenges of rapid change, intense and global competition, and increased sensitivity to social concerns that characterize today’s business environment.

As leaders, managers are responsible for the successful performance of their unit and its function. They must have a thorough understanding of strategic planning, human resource management, product planning and design, capacity management, materials management, global operations, organizational design, and information systems. Supervisory, middle, and upper-level managers practice in a variety of profit and non-profit settings, and they must be adept in their interpersonal, informational and decisional roles.

The Department of Management offers programs leading to the Bachelor of Science in Business Administration degree in the following majors: management information systems, human resource management, and general administration. An Individualized Curriculum Program in international management is also offered.

The programs in the department are designed to prepare individuals for careers as managers/supervisors in business/industrial/transportation and public organizations. For those not majoring in one of these
fields, the courses offered provide a knowledgeable background in management/supervision/administration of organizations.

The department also offers two-year associate degree programs in Management and Labor Studies.

Career Opportunities

Managers work in every field. Some opportunities that are available for managers include the following:

General Management — Executive, Chief Executive Officer (CEO), Chief Operating Officer (COO), president, city manager, health services manager, hotel general manager, strategic planner, hospital administrator, entrepreneur.

The curriculum emphasizes knowledge of all areas of business as well as good analytical, organizational, and strategic management skills.

Human Resource Management — Human resource manager, vice president of human resources, employee relations, salary and wage administrator, labor relations, organizational design and development specialist.

Students will gain the knowledge, skills, and competencies to develop and deploy a capable and motivated workforce that spells the difference between success and failure in a complete and competitive global environment.

Management Information Systems — Management Information Systems (MIS) manager, vice president of information systems, systems analyst, data base administrator, network manager, and programmer. Courses in this area will focus on the personal, organizational, and technical aspects of the MIS function. Students will gain the knowledge, skills, and competencies to use information systems for gaining strategic, tactical, and operational advantage.

International Management — Careers in any of the areas listed above, when the employing organization has significant international involvement in the form of export/import, joint ventures, foreign direct investment, and multinational/global operations.

Learning Outcomes

The student learning outcomes for majors within the Management Department are as follows:

- Operations Management—Demonstrate knowledge in role of operations management in business strategy of the firm; interdependence with other key functional areas; designing and improving processes; designing and operating value chains
- International Business—Demonstrate knowledge in cross-country variations in business environments that present both opportunities and challenges in operating globally; strategies and management systems to seize the opportunities and face the challenges in operating globally
- Information Systems—Demonstrate knowledge in role of information systems in the modern enterprise; emerging technologies (such as ERP, CRM etc.) and their potential impact on your business; managing IT resources effectively and efficiently to achieve business goals
- Business Policy and Strategy—Demonstrate knowledge in applying basic strategy frameworks, concepts, and definitions; cross-functional analysis, decision-making, and strategic integration; analysis of complex business/industry scenarios and development of action plans
- Management/Organizational Behavior—Demonstrate knowledge in management as a social process; managerial functions (planning, organizing, leading, motivating etc.) and skills (technical, communications, etc.)

Student Organizations

Association of Information Technology Professionals (AITP) offers opportunities for information technology leadership and education through partnerships with industry, government and academia.

Sigma Pi Alpha is the YSU student affiliate of the Society for Human Resource Management (SHRM) and is open to students who have an ongoing interest in human resource management.

Curricula

All students in management must take the department core requirements and the courses listed in their respective major. For University requirements, lower-division tool requirements, and upper-division core requirements, see Pre-Business Course Requirements on p. 86.

Management Department Core Requirements

MGT 3750

Management Information Systems Major

MGT 3771, 4881, 5835, 5865, and
MIS elective, CSIS 1560, 1590, MGT elective, business upper-division electives

Human Resource Management Major

MGT 3715, 4810
Management upper-division electives*
Business upper-division electives
*One of these may be an economics course
General Administration
(Combined) Major
(124 Semester Hours for the Degree)
Accounting/Finance electives
Marketing upper-division electives
Management upper-division electives
Business upper-division electives

Logistics Minors
Courses include: MGT 3725, 3789, or ISEN 4815,
GEOG 3741 or GEOG 2640, MGT 4882, 4896

Human Resource Minor
Courses include: MGT 3725, 3750, and 3734; Three
upper-division management electives from MGT
3705, 3715, 3761, 4810, 4819 (9-12 hours)

Management Information
Systems Minor
Courses include: MGT 3725, 3761 and 5835; Three
upper-division management electives from MGT
3737, 3771, 3789, and 5865

Enterprise Resource Planning
Certificate
Mgt 3761 Management Information............3 s.h.
Systems
Mgt 3789 Operations Management..........3 s.h.
Mgt 4880G Business Process Integration .......3 s.h.
Mgt 4820 Supply Chain Management..........3 s.h.
with SAP

DEPARTMENT OF MARKETING
330-941-3080
Professors Anderson, Toncar; Associate Professors Ko-
lut (Chair), Keilir, Reday, Warren; Assistant Professors
Wang-Ying, Fowler.

MARKETING
Marketing deals with processes that provide
products and services to buyers with the goal of
satisfying their needs and wants. Buyers can be
consumers or businesses. Determining buyers’ needs
and wants and developing ways to meet them is the
fundamental role of business – both for-profit and
not-for-profit. Indeed, it was recently stated in the
Harvard Business Review that, within the context of
business, “Marketing is everything” — the success of
an organization’s marketing determines the success
of the organization. It is no wonder then, that market-
ing is the central activity of business organizations
in market economies.

Marketing addresses a number of business issues,
including deciding what products to offer, to whom,
at what price, and at what location. Marketing majors
in the Williamson College of Business Administra-
tion (WCBA) enroll in a wide variety of courses that
examine these areas in great detail to provide them
with the tools and knowledge to succeed in the world
of business. For those not majoring in marketing,
the course offerings provide a knowledge of how
businesses function and how other business opera-
tions, such as finance and management, provide the
inputs necessary for successful decision making and
strategy implementation.

Although the Department of Marketing offers only
one major in marketing, the curriculum is flexible
enough to allow students to focus their attention in
areas of interest. For instance, in addition to mar-
keting management, the curriculum allows study in
such areas as retail marketing (management of retail
businesses who sell directly to consumers), shop-
ing center and property management (management of
shopping and mixed-use developments), industrial
marketing (business-to-business marketing programs
and practices), and others. The marketing major
leads to a Bachelor of Science degree in Business
Administration.

Career Opportunities
Marketing courses at YSU are designed to prepare
students for careers in marketing, including those
related to the development distribution, pricing,
promotion, and selling of goods and services. It is es-
timated that about 50 percent of all jobs in the United
States are associated with these marketing functions.
Department stores, retailers, and franchise service
operations seek college-trained marketing experts.
The marketing divisions of industrial corporations
and advertising agencies have also traditionally held
career opportunities for marketing graduates. Today,
however, they are joined by banks and other financial
institutions, health-related and charitable organi-
zations, government agencies, and other service and
not-for-profit organizations.

Marketing positions are among the highest-paid
positions in business today. A shortage of college-
trained marketing experts, excellent advancement
opportunities, and easily transferable skills make
marketing an extremely attractive and a very reward-
ing career option.

Learning Outcomes
The Department of Marketing provides quality
professional business education that prepares stu-
dents for productive careers in the marketing and
advertising industry.

Our students will have a strong understanding
of customer needs and the process of developing,
pricing, distributing, and promoting products and
services that provide customer value.

Students will have a knowledge and understand-
ing of:
- The marketing concept
- Global marketing
- Ethical marketing practices
The marketing mix
Buyer behavior
Basic marketing research
Marketing communications
Advertising and public relations management practices

Student Organizations
The Collegiate Chapter of the American Marketing Association is open to students enrolled in the business curriculum.

Curricula
Marketing majors must take the department core requirements. Students then have the flexibility to focus on areas of their interest. For University requirements, lower-division tool requirements, and upper-division core requirements, see Pre-Business Course Requirements on p. 86.

Marketing Major Requirements
(124 Semester Hours for the Degree)
MKTG 3726, 3740, 4815, 4825 and five marketing or advertising and public relations electives and business upper-division electives

Marketing Minors
Courses include: MKTG 3709, 3726, 3740, 4825, plus choose two MKTG electives from the following: MKTG 3709, 3720, 4815, 4825

ADVERTISING AND PUBLIC RELATIONS
Advertising and public relations are mainly concerned with communications by organizations to their various audiences. Organizations have public images that must be maintained and refined. Advertising and public relations practitioners create and place messages designed to inform or persuade audiences about an organization or its products and services. Many of these messages have selling as a major goal.

These messages are the ones the average person sees each day. How did you first learn about the car you drive or your favorite soft drink? It was probably through advertising messages. Similarly, public relations messages provide us with information about new developments in cancer research or charitable activities and services. Public relations activities also include planning events, writing newsletters, developing good relationships with media personnel, and providing information services to customers.

YSU’s advertising and public relations major is unique because it is offered by the Department of Marketing in the Williamson College of Business Administration (WCBA). YSU’s program has a distinct advantage because it is focused on integrated marketing communications similar to employers’ organizations, thus enhancing the marketability of our graduates. The advertising and public relations program leads to a Bachelor of Science degree in Business Administration.

Career Opportunities
Advertising and public relations courses are designed for those students who plan careers in advertising and public relations and for those who desire to have a knowledge of advertising that would benefit them as they pursue a career in business, public, or nonprofit organizations.

Student Organizations
Alpha Delta Sigma (ADS) is a national professional advertising society affiliated with the American Advertising Federation.

Curricula
Advertising/PR majors must take the department core requirements and several courses in integrated marketing communications. Students then have the flexibility to focus on areas of their interest. For University requirements, lower-division tool requirements, and upper-division core requirements, see prebusiness course requirements at the beginning of the WCBA section.

Advertising and Public Relations Major Requirements
(124 Semester Hours for the Degree)
MKTG 3726, 4815, and ADV 4855
ADV 3711, 3712, 3717 and three Advertising and Public Relations or Marketing electives and Business upper-division electives

Advertising and Public Relations Minor
Courses include: ADV 3711, 3712, 4855, PREL 3710 plus choose two electives from the following: ADV 3717, 4811 or MKTG 3740

An advertising and public relations minor can be a valuable addition to any degree. See the Marketing Department chair for more information and course requirements.

Business Economics
The BSBA in business economics is offered jointly by the Williamson College of Business and the Department of Economics, College of Liberal Arts and Social Sciences.
Economics provides critical decision-making tools in all areas of business. To the manager of a firm, microeconomic theory provides strategies on how to maximize profit, techniques for measuring how customers will respond to changes in price, and how the potential profitability of the firm will vary with the level of competition. Macroeconomic theory discusses why inflation, unemployment, and interest rates change. For a manager, an important issue is how the federal government may try to change the state of the economy, and how that will alter business opportunities. The field also offers courses that cover forecasting and other statistical techniques which may be used in business decision-making.

Career Opportunities
A career in economics is a good choice for people who like to analyze how systems work. A degree in business economics can open high-paying opportunities in a wide variety of fields. Consulting firms, research firms, financial institutions and corporate planning departments all seek applicants trained in economics.

According to the Occupational Outlook Handbook published by the U.S. Bureau of Labor Statistics: “Competition, the growing complexity of the global economy, and increased reliance on quantitative methods for analyzing the current value of future funds, business trends, sales, and purchasing should spur demand for economists. The growing need for economic analysis in virtually every industry should result in additional jobs for economists.”

To be competitive in the field, graduates must be able to analyze business problems using economic theory and statistical techniques, and then communicate those results clearly in written reports to non-economists.

Upper-Division Status
Students pursuing a business economics major must meet all course requirements and maintain a 2.5 grade point average to be admitted to upper-division standing.

Business Economics Major Requirements
(124 Semester Hours for the Degree)
ECON 3710, 3712, 4880, 12 semester hours of economics electives, and 12 semester hours of business upper-division electives.

Learning Outcomes
To be competitive in the job market, economics majors must have knowledge of microeconomics, macroeconomics, and statistical techniques. They must also be able to apply the theory and statistical techniques they have learned to public policy issues and business problems and be able to present their conclusions. The learning objectives of the economics major are as follows:

- Microeconomics – The student will be able to discuss the characteristics of different market structures and how the structure of a market affects consumers. The student will also be able to explain the conditions that must be met for an economy to use its resources in the most efficient manner possible.
- Macroeconomics – The student will be able to explain the major macroeconomic goals: rapid economic growth, high employment, and stable prices and how the tools of monetary and fiscal policy can be used to achieve macroeconomic goals.
- Statistical Analysis – The student will be able to interpret descriptive statistics, the results of hypothesis tests, and regression estimates.
- Communication Skills – The student will be able to give a well-prepared presentation on an economic problem. By well-prepared, it is meant that the presentation clearly frames the topic of the presentation, discusses the relevant theory and evidence, correctly document references, and proposes a conclusion consistent with the theory and evidence.

Economics Minor
An economics minor complements many different majors. Students taking a minor in economics must meet the requirements of one of the two tracks listed below. Courses at the 1500 level cannot be counted toward the minor.

Economics with Statistics
ECON 2610 (Principles 1, Microeconomics), ECON 2630 (Principles 2, Macroeconomics) ECON 3790 (Business and Economics Statistics), and 9 semester hours of electives.

Economics
ECON 2610 (Principles 1, Microeconomics), ECON 2630 (Principles 2, Macroeconomics), and 12 semester hours of electives. ECON 3790 cannot be counted as an elective in this track.

Student Organizations
The Economics Club is open to all students. The club sponsors speakers and field trips related to the study of economics. For information about the Economics Club contact the Economics Department.
Minor and Certificate Programs

Business Minor (22 s.h.)
ACCT 2602, 2603; MKTG 3703, FIN 3720, MGT 3725, 3761, 3737.

Certificate in Non-Profit Leadership

The Certificate in Non-profit Leadership is geared to any YSU student seeking a four-year degree who is interested in an entry-level position in a nonprofit organization or who wants to learn more about nonprofit organizations and give back to the community.

Students in the program are required to participate in curricular and co-curricular activities that improve their understanding of the operations of nonprofit organizations as well as provide community service to area agencies.

The Student Nonprofit Leadership Organization (SNLO), which is associated with the certificate program, plans fund-raisers for students' professional development activities, holds meetings at various nonprofit organizations, and completes specific projects for nonprofit agencies. In January of each year, the members attend the American Humanics Management Institute (AHMI), which is a national professional development and networking experience for students from over 80 colleges across the country. The Institute is held in a different city each year. In spring, SNLO members hold a retreat to plan next year's activities and to improve camaraderie among members.

Certification in Non-profit Leadership prepares students for entry-level positions in non-profit organizations.

The following courses are required: ENG 1550, 1551, CMST 1545, PSYC 1560, SOC 1500, PHIL 2625, PREL 3710, BUS 3720, BUS 3740 (may be taken up to four times), ACCT 3722, and BUS 4840 and 4841 (both must be taken concurrently).

Students interested in receiving the certificate must contact the campus director of American Humanics.

In addition to the coursework, the student must also attend the American Humanics Management Institute, complete a 300-hour internship with a nonprofit organization, and be an active member in the Student Nonprofit Leadership Organization.

Nonprofit Leadership Minor

Both the nonprofit leadership minor and the Certificate in Nonprofit Leadership are geared to any YSU student seeking a four-year degree who is interested in beginning a career in the nonprofit sector and/or serving the community. All students who complete the requirements of the Certificate in Nonprofit Leadership also receive the nonprofit leadership minor.

The courses required for the nonprofit leadership minor include: BUS 3720, BUS 3780 (offering Spring semester only), PR 3710, MGT 3755, MGT 3725, BUS 3740, BUS 4840, BUS 4841. All students seeking the nonprofit leadership minor must complete a 225 hour internship in a regional nonprofit organization. Academic credit is given for the internship through enrollment in BUS 4840 and BUS 4841 (listed above), which must be taken concurrently and during the semester the student is completing the internship. A student can enroll in these two courses during the fall, spring, or summer semester.

Certificate in Entrepreneurship

The Certificate in Entrepreneurship is designed to provide a broad based understanding of the entrepreneurial process and the unique problems and challenges faced by new ventures. In recognition of the broad spectrum of start-up concepts, the certificate, while housed in the Williamson College of Business Administration, is open to students of all disciplines. The Certificate in Entrepreneurship is designed to serve students who intend to start and lead their own company. It also helps students understand how entrepreneurial firms operate. Innovation, creativity, and opportunity recognition are critical skills necessary for anyone entering the marketplace. Learning these entrepreneurial skills will prepare one for the diverse and ever-changing opportunities that exist throughout the world of business.

In order to earn the certificate, students must complete three required courses:

New Venture Creation (ENT 3700)…………………3 s.h.
New Venture Financing (ENT 3750)…………………3 s.h.
Business Plan Development (ENT 4800)………………….3 s.h.

In addition, they must choose a fourth course:

EITHER
Business Consulting (MGT 4880Y)…………………3 s.h.
Entrepreneur Internship (ENT 4850)…………………3 s.h.

Certificate in Enterprise Resource Planning (ERP)

Enterprise Integration involves the integration of software, hardware, and networking technology at both the intra-organizational and inter-organizational levels. To be successful, management must implement a business process view of the organization. The ERP Certificate enables students to be effective users of integrated ERP software and effective participants in managing the evaluation, installation, and use of ERP software.

Mgt 3761 Management Information…………………3 s.h.
Mgt 3789 Operations Management…………………3 s.h.
Mgt 4880G Business Process Integration………………3 s.h.
Mgt 4820 Supply Chain Management…………………3 s.h.
with SAP
Associate Degree Programs

Associate in Arts in Business Administration

The Associate in Arts degree is intended for students not seeking other associate degrees. However, all courses taken in the Associate in Arts degree do apply toward the Bachelor of Science in Business Administration degree. To pursue an Associate in Arts degree, consult the Office of Undergraduate Student Services in the College of Business Administration, Room 408 of Williamson Hall.

Associate in Arts in Business Administration Requirements—AA Degree

FIRST YEAR

Course          s.h.  
ENGL 1550 Writing I ........................................... 3  
ENGL 1551 Writing II ......................................... 3  
′BUS 1500 Exploring Business........................................... 3  
′MATH 1552 Applied Math for Management……… 4  
′ECON 2610 Principles I............................................ 3  
′ECON 2630 Principles II ........................................... 3  
PSYC 1560 General Psychology ....................................3  
General Education Requirements.......................... 10

SECOND YEAR

Course          s.h.  
′MGT 2604 Legal Environment of Business I..........3  
′ACCT 2602 Financial Accounting..............................3  
′ACCT 2603 Managerial Accounting .........................3  
′ECON 3790 Business & Econ Stat ............................5  
English Literature Elective .....................................3  
General Education Requirements.......................... 3  
WCBA Core Course
MGT 3725 Fund of Management ....................................3  
Labor Studies Concentration .................................17  
(For specific courses, see curriculum.)

Total Hours ................................................................69

Associate in Labor Studies

Course Requirements

FIRST YEAR

Course          s.h.  
ENGL 1550 Writing I .............................................3  
ENGL 1551 Writing II .............................................3  
′BUS 1500 Exploring Business .........................................3  
′MATH 1552 Applied Math for Management ........... 4  
′ECON 2610 Principles I ............................................3  
′ECON 2630 Principles II ...........................................3  
General Psychology ....................................................3  
General Education Requirements.......................... 7

SECOND YEAR

Course          s.h.  
′MGT 2604 Legal Environment of Business I…………3  
′ACCT 2602 Financial Accounting ................................3  
′ACCT 2603 Managerial Accounting ..............................3  
′ECON 3790 Business & Econ Stat ................................5  
English Literature Elective .....................................3  
General Education Requirements.......................... 3  
WCBA Core Course
MGT 3725 Fund of Management ....................................3  
Labor Studies Concentration .................................17  
(For specific courses, see curriculum.)

Total Hours ................................................................69

Associate of Technical Study—Business Technology

The Associate of Technical Study—Business Technology program is designed to provide an opportunity for individuals who have completed documented vocational or technical training to earn academic credit for the training and combine this with academic coursework at the college level to earn an Associate of Technical Study degree.

Students must be enrolled in or have successfully completed a course of technical training that has already been evaluated by YSU. Students may be awarded no more than 30 hours for previous documented technical training.

Associate of Technical Study—Business Technology Requirements—ATS Degree

FIRST YEAR

Course          s.h.  
′ENGL 1550 Writing I .............................................3  
′ENGL 1551 Writing II .............................................3  
′BUS 1500 Exploring Business .........................................3  
′MATH 1552 Applied Math for Management ........ 4  
′ECON 2610 Principles I ............................................3  
CMST 1545 Communication Foundations .................3

Area of Concentration (9-11 semester hours)
Accounting, Finance, Management, Marketing
Proper prerequisites must be completed before registering for courses in the area of concentration. For specific courses, see curriculum for area of concentration.

Total Hours ..................................................................68-70
### SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tr>
<td>Mgt 2604 Legal Environment of Business I</td>
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</tr>
<tr>
<td>Acct 2602 Financial Acct</td>
<td>3</td>
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<td>Acct 2603 Managerial Acct</td>
<td>3</td>
</tr>
<tr>
<td>English Literature Elective</td>
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<td>Elective</td>
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<tr>
<td>Credit for technical studies</td>
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</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>64</td>
</tr>
</tbody>
</table>

*Select from the following: ECON 2630, ECON 3790, MGT 3725 or PHIL 2625. Refer to the University catalog for course descriptions and proper prerequisites before registering for electives.

**Business Tool Courses, ENGL 1551 (completed with a grade of “C” or better) and an overall GPA of 2.5 is the prerequisite for MGT 3725.

The programs and courses in the Williamson College of Business Administration will vary in nature depending upon content, level of instruction, and the pedagogical approach of the professor. At all times, discussion and the exchange of ideas between student and faculty is encouraged.
The Beeghly College of Education offers programs and activities for preparing individuals for a variety of educational positions in schools, colleges, industry, business and governmental agencies. It is organized to offer curricula and/or services for the preparation of: (1) teachers in early childhood, middle, special education, and secondary school classrooms; (2) personnel to serve in various levels of school and administrative positions; (3) supervisory personnel for curricular development and instructional improvement; (4) teachers and other personnel in special education; (5) individuals for a wide variety of guidance and student personnel positions; (6) professional educators in colleges; community, technical, and vocational schools; and governmental agencies.

The Beeghly College of Education is essentially an upper-division school comprising three departments: Counseling and Special Education; Educational Foundations, Research, Technology, and Leadership; and Teacher Education. It cooperates with the College of Liberal Arts and Social Sciences, the Bitonte College of Health and Human Services, and the College of Fine and Performing Arts in preparing teachers for both public and private schools.
Youngstown State University teacher education programs are accredited by the Ohio Department of Education and the National Council for Accreditation of Teacher Education (NCATE). These programs are subject to the sections of the Ohio law and regulations governing teacher education and licensure. The College of Education serves as the recommending agent for all Youngstown State University graduates who wish to qualify for state of Ohio licensure as well as for licensure in other states.

In the College of Education, professional courses are offered leading to teacher licensure and to the Bachelor of Science in Education degree.

Prospective teachers may also be licensed upon receiving degrees earned in the College of Liberal Arts and Social Sciences, the College of Fine and Performing Arts, and the Bitonte College of Health and Human Services, providing they meet requirements for admission to upper-division status in the College of Education and complete the proper teacher education programs.

Program Conceptual Framework: Reflection in Action

The College's professional education programs, initial and advanced, are defined within a conceptual framework referred to as Reflection in Action. This translates into the following institutional standards and outcome statements:

R1: Reflective practice is Reasoned.

Candidates exercise rational judgment and give thoughtful consideration to their professional activities and decisions.

Outcomes:
A. Candidates use research, theory, and wisdom of practice to inform their pedagogy.
B. Candidates apply the appropriate knowledge of assessment and evaluation to their practice.
C. Candidates utilize evaluation results for evidence-based decision-making.
D. Candidates employ reflective professional judgment across all facets of their practice.

R2: Reflective practice is Ethical.

Candidates act in a moral, legal, and principled manner in professional practice.

Outcomes:
A. Candidates apply ethical and legal practices in performing their professional responsibilities.
B. Candidates demonstrate knowledge of education policies at the local, state and national level for instructional decision-making.
C. Candidates value and apply the professional code of conduct particular to their area.

R3: Reflective practice is Fair.

Candidates exercise democratic fairness, principled concern, and humane care in their professional activities.

Outcomes:
A. Candidates demonstrate professional, collaborative, and inclusive dispositions both in their field placements and within their courses.
B. Candidates foster inclusive environments, and respect the backgrounds of and beliefs held by their students or clients.
C. Candidates strive to meet the educational needs of all students or clients in a caring, non-discriminatory, and equitable manner.
D. Candidates collaborate with colleagues, families and communities to ensure that all students reach their potential.

R4: Reflective practice is Logical.

Candidates think analytically in a deliberately consistent and rationally defensible manner.

Outcomes:
A. Candidates think systematically and analytically about professional practice and professional decision-making.
B. Candidates appropriately apply knowledge of research to their professional practice.

R5: Reflective practice is Effective.

Candidates apply professional knowledge in a consciously purposeful and deliberate manner.

Outcomes:
A. Candidates are proficient in the procedures, techniques, and methods of their respective fields.
B. Candidates are proficient in the content of their respective fields.

R6: Reflective practice is Critical.

Candidates use professional knowledge, objectively applying it to their own professional actions and the professional actions of others to the benefit of their students and clients.

Outcomes:
A. Candidates evaluate their own effectiveness by giving attentive consideration to the positive growth of their students/clients.
B. Candidates assess the needs for professional development and actively engage in professional activities to expand their knowledge, experiences and relationships.
R7: Reflective practice is Technical.
Candidates attend to procedural details and optimize the use of technologies appropriate to professional practice.

Outcomes:
A. Candidates effectively and appropriately integrate various technologies into their work as teachers, counselors and administrators to maximize P-12 student learning.
B. Candidates use technology to enhance their own professional development.

Requirements for the Degrees

Bachelor of Science in Education

It is the student’s responsibility to fulfill graduation requirements for the appropriate degree. These consist of:

1. The pre-college or preparatory courses for each degree. Typically, these are completed at the high school level. Prior to admission to upper-division, the student must remove any deficiencies by a process described in the Academic Policies and Procedures section of this catalog.

2. The general education requirements to be completed in the University are explained in the Academic Policies and Procedures section of this catalog. Knowledge domains are comprised of natural sciences, artistic and literary perspectives, societies and institutions, personal and social responsibility, selected topics and electives and a capstone.

3. Completion of a minimum of 124 semester hours of credit with a grade point average of at least 2.67 overall and a 2.67 grade point average in the teaching field and professional education courses (each computed separately including transfer hours) with no less than a C grade in all major, licensure, and professional education courses.

NOTE: No student will be permitted to take the following professional education courses more than twice: FOUN 1501, FOUN 3708, EDTC 3771, PSYC 3709, SPED 2630, TERG 3701, TERG 3702, TERG 3703, TEMC 3702, SED 4800 series, ECE 2629, ECE 3760, pre-student teaching courses—ECE TEC, MCE Internship, STEP, SED 3706, MULT 4807, student teaching seminar and student teaching.

4. Students graduating from the Beeghly College of Education earn a Bachelor of Science in Education degree. The degree is awarded to students who qualify for a teaching license. Exceptions to this policy can be made only by the dean of the College of Education.

The curricula leading to the degrees are designed to be completed in four academic years.

ROTC students are allowed certain modifications of the requirements, as explained in the Department of Military Science in the College of Health and Human Services section.

Majors in Teacher Education

The following designations indicate student majors.

1. Early Childhood Education — (Pre-kindergarten through grade three). For teaching children who are typically developing, at-risk, gifted, and who have mild/moderate educational needs.

2. Middle Childhood Education — (Grades four through nine). For teaching learners in at least two of four curriculum concentration areas named on the teaching license. Students choose two areas from the following four: a) language arts; b) mathematics; c) science; d) social studies.


Requirements for Admission to Teacher Education Licensure Programs

Neither admission to the University nor declaration of a major related to a teaching field guarantees admission to the Beeghly College of Education (BCOE)'s teacher education programs or candidacy for a teaching license. Formal admission to teacher education is required before students are allowed to enroll in junior and senior level courses in the College.

After candidates have completed a minimum of 60 semester hours and fulfilled all other admission requirements, they should submit an application for admission to the teacher education program (upper
division. The application for upper division must be completed and submitted to BCOE Room 2101 by: September 15 to register for Upper Division courses for Spring; February 15 to register for Upper Division courses for Summer and Fall. Applications submitted after the deadline are NOT guaranteed acceptance in time to register for Upper Division courses.

Each completed application will be reviewed and approved by the Upper Division Admission and Retention Committee. If all requirements are met, student will be allowed to register for Upper Division courses the following semester.

Admission to the Teacher Education Program (Upper Division) is obtained upon satisfactory completion of the following requirements:

1. Minimum completion of 60 semester hours
2. Minimum 2.67 overall GPA and passage of the Praxis I with the following minimum scores: Writing – 172, Reading – 173, Mathematics – 172. The test is administered through the Education Testing Service and officially reported to YSU.
3. “B” average or better (A-C, B-B) for:
   a. ENGL 1550
   b. ENGL 1551
   Note: ENGL 2601 is required if failure to meet “B” average above.
   If you receive a “C” or below, you will need to retake this course.
4. “B” average or better (B-B-B, A-B-C) across the following:
   a. FOUN 1501
   b. CMST 1545
   c. See curriculum sheet for concentration area course.
   Note: If you do not have a “B” average, you will need to retake courses until the “B” average is achieved.
5. Completion of Good Moral Character Statement.
6. Current Bureau of Criminal Investigation (fingerprinting) and FBI clearances.

Candidates for degrees outside the College of Education are enrolled in the college awarding the particular degree, nonetheless these students must meet the above requirements and be admitted to Teacher Education in order to enter the junior and senior level courses offered in the College of Education leading to teaching licensure. All B.S. in Ed. candidates are enrolled in the College of Education and must meet these requirements for admission. Transfer students who were in good standing in an NCATE approved teacher education program at the previous school and who were admitted to the Teacher Education Program there, may be admitted to the Teacher Education Program at Youngstown State University with appropriate documentation.

Students are encouraged to plan to meet the requirements for admission to teacher education by the end of their sophomore year. Later qualification does not justify waiving any course prerequisites or planned sequences, and usually results in prolonging the period of study beyond the usual four years.

Graduation and/or Licensure Evaluation

A Request for Graduation and/or Licensure Evaluation form should be completed and submitted to BCOE Room 2101 the semester prior to student teaching and/or application for licensure. This generates a program evaluation to assure that candidates are meeting graduation and/or licensure requirements.

Requirements for Student Teaching

Application for a student teaching assignment must be filed with the Student Field Experiences Office during the preceding semester in which student teaching is to be completed. (BCOE Room 2101 for details.) The student must register for the proper number of hours for the respective student teaching courses(s) during the open registration period preceding the student teaching term. Students anticipating more than one teaching license should seek advisement in the College of Education. To qualify for a student teaching assignment, the student must have satisfied the following requirements: 1) BCOE Upper Division Status; 2) a minimum overall G.P.A. of a 2.67; 3) completion of the program prerequisites; 4) an average of 2.67 in the major/teaching area and professional education courses (each computed separately with no grade less than a C); 5) a passing score on the Praxis II content and PLT test(s) and; completion of a criminal background check. No other course may be taken with student teaching except as stipulated in the specific program requirements. The Administrator of Student Field Experiences must be notified in writing prior to a student's attempt to register for course(s) outside of student teaching. Student teaching is a full-time course, which may deviate somewhat from the University calendar depending on the calendar of the assigned school.

Requirements for Licensure

Initial Licensure. The dean of the College of Education has the authority to recommend to the Ohio State Board of Education, and other licensure agencies, those Youngstown State University graduates who qualify for licensure in any teacher education program offered by the University. Students earning degrees in schools other than the College of Education must complete all requirements of the teacher education program in order to be licensed. All candidates for any teaching license must meet the requirements for program admission in the College of Education, but the degree earned may be conferred by any of the University colleges in accordance with the specific requirements for the degree desired. However an
overall undergraduate grade point average of 2.67 and 2.67 in the major field(s) and professional-education courses must have been earned if the student is to be recommended for licensure by Youngstown State University, irrespective of the type of degree received. In addition, each candidate for licensure must pass the State of Ohio prescribed licensing examination(s) (Praxis II) prior to receiving YSU’s recommendation for licensure.

For more information regarding additional fields, or endorsements, consult the academic advisors in the College of Education.

Post-Baccalaureate Licensure. Post-baccalaureate students desiring Youngstown State University’s recommendation for licensure in Ohio and any other state must be admitted to the University. Post-baccalaureate students are advised in the undergraduate student advisement office (BCOE Room 2101) and are advised in the same manner as undergraduate students. They must meet the standard set of requirements for admission and upper-division status in the College of Education. They must satisfy the teaching field, and professional education requirements comparable to the undergraduate program. Post-baccalaureate students may use approved, documented program equivalency to satisfy appropriate parts of the licensure program.

Licensure in a Second Teaching Field. Post-baccalaureate and undergraduate students seeking licensure in a second teaching field will need to satisfy the approved academic program as stated in the catalog under the section “Teaching Fields.” The same quality point requirements apply to second teaching fields as those for initial licensure. A passing score on the specialty exam of the State of Ohio for the second teaching field is required prior to YSU’s recommendation for the second teaching field.

Advisement

All prospective teachers are advised by the academic advisors in the College of Education. Secondary students, middle childhood students, and multi-age students are also advised in the department in which their major or areas of concentration are located.

Title II, Higher Education Act

For the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act, please see Appendix B of this Bulletin.

Curricula and Courses of Instruction

Each curriculum leads to an Ohio resident educator license. Minimum requirements for teachers’ licenses are determined by the Ohio Department of Education; if those requirements change, they become effective immediately at Youngstown State University. State department minimal requirements may be, and usually are, exceeded by University requirements.

Courses will be found in the back of this Bulletin in alphabetical order by course prefix.

DEPARTMENT OF COUNSELING AND SPECIAL EDUCATION

330-941-3257

Professors Dove, Kress, Martin, Miller; Associate Professors Ellenson, Imle, Protivnak; Assistant Professors Briley (Chair), Lewis, McGee, Paylo, VanVoorhis, Wolford, Gongola; Instructor Hill.

Counseling

The counseling program offers an M.S. in Education degree with program options in clinical mental health counseling, school counseling, student affairs, college counseling, and addiction counseling. Candidates in clinical mental health, school, college, and addiction counseling are prepared to meet the requirements for licensure and national certification as a counselor. A complete listing of program options and course descriptions is presented in the YSU Graduate Bulletin and on the department’s website.

The counseling program offers a limited number of undergraduate elective courses for students who are interested in pursuing a graduate degree in counseling. The undergraduate counseling courses focus on mental health and wellness, leadership, career life planning, and helping skills.

Special Education

The department offers a B.S. and M.S. in Education with specialization in moderate/intense (M/I) or moderate/intense (M/M) disabilities. The undergraduate programs lead to licensure in the Intervention Specialist (M/M) and the Intervention Specialist (M/I) serving grades K-12. An Intervention Specialist (M/M) serves students with mild to moderate cognitive disabilities. Intervention Specialists (M/I) serve students with moderate to severe and multiple disabilities. Both programs emphasize the behavioral needs of students with disabilities.

Majors in this program must complete the general education requirements, professional education requirements, 12 hours of reading, and curriculum content requirements.

Reading and Study Skills (RSS)

The Reading and Study Skills Center operated by the Department of Counseling in the Beeghly College of Education provides individualized and group instruction in improving reading rate and comprehension as well as study strategies. The Reading and Study Skills Center is staffed by faculty, graduate assistants, undergraduate tutors, and a full-time coordinator. The Center maintains a laboratory component for RSS 1510A, 1510B and 1501C—courses mandated for students based on the
COMPASS® Reading Test (CRT). Additional services include individual tutoring in study strategies and reading rate, and reading comprehension, college success workshops and assistance with preparation for standardized tests such as PRAXIS, MCAT, and MAT. Peer tutors are available to work with students on an individual basis. Call or visit our website to make an appointment.

The services offered by the Reading and Study Skills Center are free of charge to all registered YSU students. The Reading and Study Skills Center is located in 154 Maag Library and is open from 8:00 a.m. to 6:00 p.m., Monday and Wednesday, 8:00 a.m. to 5:00 p.m., Tuesday and Thursday, and 8:00 a.m. to 3:00 p.m. Friday. For further information contact the Reading and Study Skills Center, telephone 330-941-3099 or visit website at www.ysu.edu/rdg-studyskills/.

**Intervention Specialist License (K-12)**

Mild/Moderate Disabilities program requires a minimum of 126 s.h.

Moderate/Intensive Disabilities program requires a minimum of 130 s.h.

The B.S. in Ed. degree requires the courses listed below. Licensure also requires passing the Ohio Praxis II Exams, prior to student teaching.

All courses meeting requirements specified on this page require a minimum “C” grade. Exceptions are ENGL 1550 and 1551 which require a “B” average. **PLEASE BE AWARE OF THE PREREQUISITE FOR EACH COURSE.**

**General education requirements in Special Education (46 s.h.)**

The specific coursework required in general education for both Mild/Moderate and Moderate/Intensive is as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550 Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551 Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 2651 Intro to Language</td>
<td>3</td>
</tr>
</tbody>
</table>

**Communication**

CMST 1545 Comm Theory & Practice | 3

**Math**

MATH 1564 Found. of MS Math | 4
MATH 2665 Foundations of Middle School Math | 4

**Natural Science**

Natural Science with a lab | 4
Natural Sciences Course | 3

**Societies & Institutions**

HIST 2605 or 2606 | 3
Societies & Institutions Course | 3

**Artistic & Literary**

MUED 2621 | 3
Artistic & Literary Course | 3

**Personal & Social Responsibility**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 1560</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>3</td>
</tr>
<tr>
<td>Elective from GER*</td>
<td>3</td>
</tr>
<tr>
<td>Elective from GER*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Two choices from GER courses either from Natural Sciences, Societies & Institutions and/or Artistic & Literary Perspectives—no more than 3 courses from one domain.

**Professional Education Requirements in Special Education (48 s.h.)**

The specific coursework required in professional education for both Mild/Moderate and Moderate/Intensive is as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOUN 1501 Intro to Education</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 3708 Education &amp; Society</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 3709 Educ Psychology</td>
<td>3</td>
</tr>
<tr>
<td>EDTC 3771 Tech for Teaching</td>
<td>3</td>
</tr>
</tbody>
</table>

**Reading Course Requirements in Special Education**

The specific coursework required in reading is as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TERG 3710 Rdg Appl in Content Areas, Middle Years</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3701 Phonics in Rdg Instruction</td>
<td>3</td>
</tr>
<tr>
<td>TERG 3702 Dev Rdg Inst &amp; Lit Strat P-9</td>
<td>3</td>
</tr>
</tbody>
</table>

**STEP Block**

SPED 5835 Clsr Mgmt Except Children & Youth | 4
SPED 4854 Cross Curricular Application | 4
SPED 5864 Serv Coor Coll & Consult Student W/ Special Needs | 3
TERG 3703 Assess & Inst in Reading, P-9 | 3

**Student Teaching**

SPED 4839 for M/I / SPED 4849 for M/M | 4–12
SPED 4869 Student Teaching Seminar (GER Capstone course) | 2

**Curriculum Content Requirements in Special Education**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPED 3715 Char &amp; Needs Children &amp; Youth w/ M/M Disabilities</td>
<td>4</td>
</tr>
<tr>
<td>SPED 5867 Interv &amp; Remediation of Recept/Express Lang Dysfunction</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5802 Educ of Except. Children</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5828 Educ of Emotionally Disturbed Children</td>
<td>4</td>
</tr>
<tr>
<td>SPED 5866 Assess &amp; Ref Except. Childn/Youth</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5853 Diagnosis &amp; Intervention Math SpEd</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5851 Trns Plf Social Skills Dev &amp; Hlth Rel Issues</td>
<td>3</td>
</tr>
</tbody>
</table>

**Curriculum Content Requirement for Teaching Students with Mild/Moderate Disabilities**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 3704 Lit for Middle School</td>
<td>3</td>
</tr>
<tr>
<td>OR ENGL 3704 Lit for Middle School</td>
<td>3</td>
</tr>
<tr>
<td>OR ENGL 3705 Young Adult Lit</td>
<td>3</td>
</tr>
<tr>
<td>SPED 5868 M/M Prac (Prereq is STEP)</td>
<td>4</td>
</tr>
</tbody>
</table>
Curriculum Content Requirement for Teaching Students with Moderate/Intensive Disabilities
SPED 5833 Char & Needs of Exceptional
Children & Youth w/M/I...........................................3
SPED 5834 Educ. Strategies for Children &
Youth w/M/I..........................................................4
*Please note: SPED 5833 is a prerequisite for SPED 5834. Students will not be permitted into SPED 5834 without SPED 5833.

STEP
All students seeking licensure in an area of special education must complete STEP (Special Teacher Education Program). The program is an intensive field-based experience conducted in cooperation with local elementary and secondary schools. STEP is scheduled during fall and spring semesters. Students are committed to an 8:00 a.m. to 3:00 p.m. schedule. Because STEP is a full-time commitment, students are advised not to plan any outside work during that period, nor will they be permitted to take any concurrent course work.

In STEP, theory and methods instruction takes place at the university and onsite teaching takes place in the public schools. Students learn to observe, diagnose, prescribe for, and teach exceptional children individually and in small and large groups. Field experiences are carefully planned and closely supervised and evaluated daily to insure that students will develop needed competencies. The emphasis is on individualized instruction adapted to the unique needs of each child.

Junior or senior students planning to take STEP must submit an application 1 (one) year in advance to BCOE Room 2101 by September 15 for fall STEP or February 15 for spring STEP. Contact the Beeghly College of Education academic advisors for minimum STEP prerequisites. It is best to take STEP one or two semesters prior to student teaching.

DEPARTMENT OF EDUCATIONAL FOUNDATIONS, RESEARCH, TECHNOLOGY, AND LEADERSHIP
330-941-1436

Professors Beebe, McEwing (Chair), McNierney, Vergon; Associate Professors deBlois, Eggers, Pusch; Assistant Professors Djoleto, Larain, Spearman.

The Department of Educational Foundations, Research, Technology and Leadership, through its foundations and technology courses, provides undergraduate education majors with courses that draw from a range of academic disciplines. Foundational studies attend particularly to the diverse contexts within which educational practices occur and examine how interpretation can vary with different historical, philosophical, cultural and technological perspectives. Undergraduate foundations courses, which include tests and measurements, are designed to help develop interpretive, normative, and critical perspectives on education, both inside and outside the schools. The undergraduate technology course introduces candidates for teaching certificates to the issues, pedagogies and skills associated with the use of technology in the educational process.

Graduate courses offered by the Department appear in the Graduate School Bulletin.

DEPARTMENT OF TEACHER EDUCATION
330-941-3251

Professors Bailey (Chair), Hoover, Kim, Williams; Associate Professors Cummins, Feist-Willis, Theall; Assistant Professors Graham, O’Connor, Rees, Saunders-Smith; Instructor Greene.

EARLY CHILDHOOD EDUCATION

IMPORTANT NOTICE: Some teacher education programs, course, and credit information provided below is pending completion of all formal review processes at Youngstown State University and the Ohio Department of Education. Contact the Beeghly College of Education academic advisors to be advised of any changes in information provided here regarding these teacher licensure programs in early childhood education, middle childhood education, secondary education, and special education.

In cooperation with the Department of Human Ecology, the Department of Teacher Education offers a four-year early childhood education program approved by the Ohio Department of Education. Advisement is provided by the faculty in Child and Family and Early Childhood Education, as well as the academic advisors in the College of Education. Majors in this program must complete general education requirements, professional education requirements, reading course requirements, and curriculum content requirements.

Prior to student teaching, all early childhood majors must complete a Teacher Education Center (TEC) clinical experience. A TEC, conducted in local schools, is defined as University faculty presenting theory and methods, and subsequently observing the students’ teaching of lessons. This field experience requires a substantial time commitment, as students spend the entire day in schools during designated weeks. Early Childhood TEC is scheduled during the fall and spring semesters. Applications for TEC must be submitted (1) one year in advance to BCOE Room 2101 by September 15 for Fall TEC; by February 15 for Spring TEC. Contact the Beeghly College of Education academic advisors for minimum TEC prerequisites.
Early Childhood License (P-3)

The B.S. in Ed. degree requires the courses listed below to total 133 s.h. This teaching field also requires passage of the Praxis II test with a score of 166 on the Specialty Test: Education of Young Children (0021) and a 166 on the PLT (0521) in order to be eligible to student teach.

All courses meeting requirements specified on this page require a minimum “C” grade. Exceptions are ENGL 1550 and 1551 which require a “B” average.

General Education Requirements (49 s.h.)

The specific coursework required in general education for early childhood education majors is as follows:

Writing
ENGL 1550 Writing 1 ...........................................3
ENGL 1551 Writing 2 ...........................................3

Oral Communication
CMST 1545 Comm Theory & Practice ......................3

Math
MATH 2651 Math for Early Childhood Teachers 1 ....3
MATH 2652 Math for Early Childhood Teachers 2 ....3

Natural Science
Natural Science with a lab ....................................4

Two of the following Natural Science:
ASTR 1504 .........................................................3
BIOL 1505 ..........................................................3
CHEM 1500 ..........................................................3
GEOG 1503 ..........................................................3
GEOG 1504 ..........................................................3
ENST 1500 ..........................................................3
PHYS 1500 ..........................................................3

Societies & Institutions
HIST 2605 or 2606 .............................................3
GEOG 2640 ..........................................................3

One of the following Societies & Institutions:
ECON 1501 .........................................................3
SOC 1500 .............................................................3

Artistic & Literary
MUED 2621 .........................................................3
ART 1541 or 1542 or 1540 ....................................3

Personal & Social Responsibility
PSYC 1560 ..........................................................3
PSYC 3755 Child Dev ...........................................3

Selected Topics
ENGL 2651 Intro to Language ...............................3

Curriculum Content Requirements in Early Childhood Education (33 s.h.)

ART 3737 Pre-K - 4 Visual Arts Ed ........................3
CHFM 2633 Early Child: Intg Dev & Educ ..............3
CHFM 3750 Parent and Prof Relationships ..............3

CHFM 3770 Wellness in Early Childhood ...............3
CHFM 3733L Pract/Preprimary Set ........................3
ECE 2629 Teaching Young Children: Best Practices in ECE .........................................................3
ENGL 3703 Children’s Literature ............................3
HPES 2624 PE Child in Early Childhood Settings ....3
MUED 3722 Music Settings ...................................3
SPED 4831 Assessment in Early Childhood ..........3
ECE 3760 Cross Curr Application ........................3

† Indicates upper-division status

Professional Education Requirements in Early Childhood Education (51 s.h.)

The specific coursework required in professional education is as follows:

FOUN 1501 Intro to Education ................................3
FOUN 3708 Education & Society ..........................3
EDTC 3771 Tech for Teaching .................................3
PSYC 3709 Psych of Education ..............................3
SPED 2630 Individuals W/Except in Society ..........3

The specific coursework required in reading is as follows:

TERG 2601 Rdg Appl in Content Areas, P-12 .........3
TERG 3701 Phonics in Rdg Instruction ....................3
TERG 3702 Dev Rdg Inst & Lit Strat P-9 .................3

TEC Block
ECE 3713 Teaching Math: Early Years ..................3
ECE 3715 Tchng Sci ............................................3
ECE 3780 Social Studies for Young Children ........3
ECE 4814 Lang Arts Methods in the Early Years (3-8) ..................3

TERG 3703 Assess & Inst in Reading, P-9 .............3

Student Teaching Block
ECE 3784 Student Teaching: Early Childhood Education ........................................10
ECE 3784 Student Teaching: Early Childhood Education ...........................................2

† Indicates upper-division status

Learning Outcomes

Content majors need to check with their area of major for other relevant learning outcomes besides those listed in the conceptual framework.

MIDDLE CHILDHOOD EDUCATION

In cooperation with various academic discipline departments in the University, the Department of Teacher Education offers programs leading to licensure in middle childhood education programs approved by the Ohio Department of Education. Adviser is provided by the academic advisors in the Beeghly College of Education, and faculty in the content areas of the concentrations. Majors in this program must complete general education require-
ments, professional education requirements, reading requirements, and two of four curriculum concentration areas named on the teaching license: a) language arts; b) mathematics; c) science; d) social studies. While total credit hour requirements depend on the student's choice of concentration areas, the middle school program requires approximately 135 s.h.

Prior to student teaching, all middle childhood majors must complete an Internship. This Internship, conducted in local schools, is defined as University faculty presenting theory and methods, and subsequently observing the students’ teaching of lessons. This field experience requires a substantial time commitment, as students are required to spend the entire day at a school site during designated weeks of the semester. The middle childhood Internship is scheduled during the fall semester only. Applications for the MCE Internship must be submitted 1 (one) year in advance to BCOE Room 2101, by September 15. Contact the Beeghly College of Education academic advisors for minimum prerequisites and to discuss course rotation.

Middle Childhood License (4-9)

The B.S. in Ed. degree requires the courses listed below to total a minimum of 124 s.h. This teaching field also requires the passage of the Praxis II exam with a score of 168 on the PLT 5-9 (0523) test and passing scores on the Specialty Tests designated for the concentration areas.

All courses meeting requirements specified on this page require a minimum “C” grade. Exceptions are ENGL 1550 and 1551 which require a “B” average.

General Education Requirements in Middle Childhood Education
(*Subject to change upon GER completion*) (46 s.h.) The specific coursework required in general education is as follows:

**Writing**
- ENGL 1550 Writing 1..............................................3
- ENGL 1551 Writing 2..............................................3

**Communication**
- CMST 1545 Comm Theory & Practice........................3

**Math**  
(*If math is one of the concentrations see the concentration area.*)  
- MATH 2623..............................................................3

**Natural Science**  
(*If science is one of the concentrations see the concentration area.*)  
- Natural Science with a Lab......................................4
- Course from Natural Sciences.................................3
- Course from Natural Sciences.................................3

**Artistic & Literary**  
(*If language arts is one of the concentrations see the concentration area.*)  
- Course from Artistic & Literary...............................3
- Course from Artistic & Literary...............................3

**Societies & Institutions**  
(*If social studies is one of the concentrations see the concentration area.*)  
- Course from Societies & Institutions........................3
- Course from Societies & Institutions........................3
- Course from Societies & Institutions........................3

**Personal & Social Responsibility**
- PSYC 1560 General Psychology..................................3
- Elective from Personal & Social Responsibility............3

**Selected Topics**
This requirement is met by SPED 2630 listed in the Professional Education Requirements..................3

**Professional Education Requirements in Middle Childhood Education (53 s.h.)**
The specific coursework required in professional education is as follows:
- FOUN 1501 Intro to Education....................................3
- FOUN 3708 Education & Society..................................3
- SPED 2630 Individuals w/Except in Society..................3
- TEMC 3702 Char of Early Adolescents & Implications for Curr & Instr..........................................................3
- EDTC 3771 Tech for Teaching.....................................3

For science concentration area candidates only:
- TEMC 3707 Science/Technology/Society........................3

*Indicates upper-division status

**Reading Course Requirements in Middle Childhood Education**
The specific coursework required in reading is as follows:
- TERG 3710 Rdg Appl in Content Areas, Middle Years..............3
- TERG 3701 Phonics in Reading Instruction..................3
- TERG 3702 Dev Rdg Instr & Lit Strat P-9......................3
- TERG 3703 Assessment & Inst in Reading, P-9..............3

**Middle Childhood Internship**
- TEMC 4801 Middle School Learning Comm......................4

Depending on the student’s teaching concentrations, two or more of the following:
- TEMC 3703 Thematic Instruc & Assess Methods in Social Studies.................................................................4
- TEMC 3704 Tchng Math in the Mid Sch........................4
- TEMC 3705 Tchng Sci in the Mid Sch..........................4
- TEMC 3706 Teaching of Lang Arts in the Middle School......4

**Student Teaching**
Student teaching candidates will register for two of the following student teaching courses depending on concentration areas:
- TEMC 4802C Student Teaching in Middle Childhood Science Education.................................5
C. Science, 28 s.h. required. (See notes in Science GER) A passing score of 144 on the middle childhood science test (0439).

BIOL 1505 Biology & the Modern World (section for Education Majors).............3 s.h.
CHEM 1500 Chemistry & Modern Living (section for Education Majors).............3 s.h.
GEOL 1505/L Physical Geology and Lab ........4 s.h.
PHYS 2607 Physical Science for Early and Middle Childhood Education ..........4 s.h.

Elective Courses (14 s.h. minimum) The following courses also cover topics that are included on the Praxis exam. Students are encouraged to complete as many as possible.
ASTR 1504 Descriptive Astronomy ..................3 s.h.
ENST 2600 Foundations of Environmental Studies ........................................3 s.h.
ENST 2600L Foundations of Environmental Studies Lab ......................................1 s.h.
GEOG 2630 Weather .........................................3 s.h.
GEOG 2602 Introduction to Oceanography ..........3 s.h.
GEOG 2605 Historical Geology ..................................4 s.h.
GEOG 3720 Field Investigations in Geology ....4 s.h.

D. Social Studies, 33 s.h. required. A passing score of 151 on the Middle Childhood Social Studies Test (0089)
HIST 1511 Introduction to World History 1 ........3 s.h.
HIST 1512 Introduction to World History 2 ........3 s.h.
HIST 2605 United States History 1 .....................3 s.h.
HIST 3748 History of Ohio ................................3 s.h.
LASS 4805 Integrated Social Studies Seminar .................................................3 s.h.

Eighteen semester hours electives: each discipline must be selected once; two discipline areas must be selected twice:

Geography
GEOG 2650 GEOG 3715 GEOG 3717 GEOG 3719
GEOG 3721 GEOG 3722 GEOG 3741 GEOG 3745
GEOG 4813 GEOG 4850 GEOG 2640

Political Science
POL 1560 American Government ...............3 s.h.
One course from the following:
POL 2640 POL 2660 POL 3700
POL 3704 POL 3706 POL 3722

Economics
ECON 2610 Principles 1: Microeconomic Theory & Policy ........................3 s.h.
ECON 2630 Principles 2: Microeconomic Theory & Policy ........................3 s.h.

Sociology/Anthropology
ANTH 1500 Introduction to Anthropology ....3 s.h.
SOC 1500 Introduction to Sociology ............3 s.h.
SECONDARY, MULTI-AGE, AND CAREER/TECHNICAL EDUCATION

In cooperation with various academic discipline departments in the University, the Department of Teacher Education offers programs leading to licensure in many adolescent, multi-age, and career/technical teaching fields approved by the Ohio Department of Education. Advisement in these areas is provided by faculty in the academic disciplines of the teaching fields, the professional secondary education faculty in the Department of Teacher Education, and the academic advisors in the Beeghly College of Education. The College of Education assumes full responsibility for approval of matters dealing with licensure requirements (regardless of teaching field or degree involved) and for graduation requirements for the Bachelor of Science in Education degree.

Majors in these programs must complete general education requirements, professional education requirements, and teaching field requirements. The total credit hours required depend on choice of teaching field(s); students in programs with less than 124 s.h. must add electives to reach 124 s.h. for the B.S. in Ed. degree. Prior to student teaching, the majors listed below complete a SED Cluster. The Cluster is partially conducted in local schools, and is defined as University faculty presenting theory and methods, and subsequently observing the students’ teaching of lessons. This field experience requires a substantial time commitment. Applications for SED Cluster must be submitted 1 (one) year in advance to BCOE Room 2101, by September 15 for fall and February 15 for spring.

The Cluster for earth science, intergrated mathematics, integrated science, life science, and physical science consists of TERG 3711, FOUN 3710, SED 3706, and SED 4800. For integrated language arts, the cluster contains FOUN 3710, SED 3706 and SED 4800E. Health and family and consumer science candidates take TERG 3711, FOUN 3710, and SED 3706 for the cluster. Lastly, French, Italian, and Spanish majors take TERG 3711, FOUN 3710, and SED 3706. Teacher education candidates have the option of taking one content course with the Cluster. Note: Some of the SED 4800 courses are only offered during a specific term. Contact the Beeghly College of Education academic advisors for minimum SED cluster prerequisites and to discuss the course rotation.

Adolescence, Multi-Age And Career/Technical License

The B.S. in Ed. degree requires the courses listed below in addition to the courses required for the major/licensure field with a minimum to total 124 s.h. Licensure also requires passing the Ohio Praxis II Exams.

All courses meeting requirements specified on this page require a minimum “C” grade. Exceptions are ENGL 1550 and 1551 which require a “B” average.

General education requirements in Adolescent Education (45 s.h.)

The specific course work required in general education is as follows:

**Writing**
- ENGL 1550 Writing 1 .............................................3
- ENGL 1551 Writing 2 .............................................3

**Oral Communication**
- CMST 1545 Comm Theory & Practice .....................3

**Math**
- See appropriate concentration sheet for math requirement.

**Natural Science**
- Natural Science Course with a lab..........................4
- Natural Science Course .........................................3

**Artistic & Literary**
- Artistic & Literary Course ....................................3
- Artistic & Literary Course ....................................3

**Societies & Institutions**
- Societies & Institutions .......................................3
- Societies & Institutions .......................................3

**Personal & Social Responsibility**
- PSYC 1560 General Psychology ................................3
- Personal & Social Responsibility Course ..................3

**Selected Topics**
- This requirement is met by SPED 2630 listed in Professional Education Requirements.

  Two choices from GER courses either from Natural Sciences, Societies & Institutions and/or Artistic & Literary Perspectives—no more than 3 courses from one domain.

  GER distribution varies with the teaching discipline. Please check with your academic advisor in your major teaching field. Students are encouraged to check with their advisors, because 1) in some licensure areas, teaching field requirements may be used to meet some general education requirements, and 2) some licensure areas recommend alternatives within these general education requirements that are particularly relevant to the teaching field.

Professional Education Requirements in Secondary, Multi-Age, and Career/Technical Education

The specific course work required in professional education is as follows:

**FOUN 1501 Introduction to Education .................3
**FOUN 3708 Education and Society ....................3
**FOUN 3710 Educational Assessment ...................3
**PSYC 3709 Psychology of Education ..................3
**EDTC 3771 Technologies for Teaching ................3
**TERG 3710 Rdg Appl Content Area, Middle Years 3**
**TERG 3711 Rdg Appl Content Area, Secondary Years 3**
**SED 3706 Principles of Teaching Adolescents ............5**
Adolescent, Multi-age, and Career/Technical Teaching Fields in Secondary Education

These teaching fields are built around a secondary education major. All prospective students majoring in these teaching areas are advised to read carefully the sections relative to requirements for admission to upper-division status, for student teaching, and for licensure which appear at the beginning of this College of Education section. In addition to the subject area teaching field requirements, all majors must complete the secondary education professional-teaching course sequence as specified by the Department of Teacher Education. YSU recommends that students complete courses of study which lead to qualification in more than one teaching field and/or in teaching fields projected to be available in the job market at the time of licensure. Students should see the coordinator in Career Services for current job market information which may promote ultimate employment.

The State of Ohio adopted new teacher licensure standards effective September 1, 1998 and YSU’s programs below reflect these changes.

**VISUAL ARTS (P-12)**

**Multi-Age License**

*All of the following:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1521</td>
<td>Foundation Drawing</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>ART 1522</td>
<td>Intermediate Drawing</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>ART 1501</td>
<td>Fund. of 2-D Design</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1502</td>
<td>Fund. of 3-D Design</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>ART 1503</td>
<td>Foundation Portfolio Review</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3721</td>
<td>Expressive Drawing</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

*Indicates upper-division status*
FRENCH (P-12)
Multi-Age License

See your advisor in the Foreign Language Department for advisement on the courses for this major.

FRNC 1550 Elementary ........................................3 s.h.
FRNC 1500 Elementary is waived if student starts with FRNC 2600 Intermediate - a FRNC 3700 or 4800 level course must be substituted
FRNC 2600 Intermediate ......................................4 s.h.
FRNC 2600 Intermediate is waived if student starts with FRNC 2605 Advanced Intermediate - a FRNC 3700 or 4800 level course must be substituted

All eleven (11) courses listed below are required:
FRNC 2605 Advanced Intermediate (required for Admission to Teacher Education Program) ...................................3 s.h.
FRNC 2606 Intensive French Review ...............................3 s.h.
FRNC 3710 Applied Phonetics ....................................3 s.h.
FRNC 3715 Conversation & Comp. ................................3 s.h.
FRNC 3740 Business French .......................................3 s.h.
*FNGL 4801 Method of Foreign Lang Teaching ......................3 s.h.
*ENGL 4850 Sociolinguistics ......................................3 s.h.
*ENGL 4851 Language Acquisition ..............................3 s.h.

Select one (3) of the following courses
FRNC 3750 Civilization and Culture ..............................3 s.h.
FRNC 3771 French Fiction ........................................3 s.h.
FRNC 3772 French Drama .........................................3 s.h.
FRNC 3773 French Poetry .........................................3 s.h.

Select one (1) of the following courses
FRNC 4874 Advanced Writing .....................................3 s.h.
FRNC 4885 Special Topics ..........................................3 s.h.

Professional education exception: Candidates in this major take MULT 4824 (Methods of Teaching P-12). In addition, they do not take SED 4800 (Reflective Teaching Methods).

Studying abroad in a French-speaking country is highly recommended.

Note: Courses marked with * are taken only once when acquiring license in multiple languages.

Courses within this area must average a 2.67.

HEALTH (P-12)
Multi-Age License

All of the following:
PHLT 2692 Human Sexuality ......................................3 s.h.
PHLT 2692 Human Sexuality ......................................3 s.h.
PHLT 3702 Found of Health Ed Theory & Methods (O) ....3 s.h.
PHLT 3703 Health Ed for Grades Pre-K – 4 ................3 s.h.
PHLT 3704 Health Ed for Grades 4 – 6 ...................3 s.h.
PHLT 3705 Health Ed for Grades 7 – 12 ...................3 s.h.
PHLT 3731 Drug Use and Abuse ................................3 s.h.
PHLT 3757 Health and Disease .................................4 s.h.
PHLT 3791 Community Health or ...............................3 s.h.
AHLT 3708 Preventative Public Health Care ...................3 s.h.
AHLT 3740 Pathology of Infectious Disease .....................3 s.h.
AHLT 4808 Environmental Health Concerns ................3 s.h.
FNUT 1551 Normal Nutrition ....................................3 s.h.

AHLT 5807 Epidemiology ........................................3 s.h.
MATC 1501 Medical Terminology ................................3 s.h.

Current CPR and First Aid certification required at time of graduation.

This licensure area has specific GER requirements. Please refer to the curriculum advisement sheet in the College of Education academic advising office.

Professional education exception: Candidates in this major do not take SED 4800 (Reflective Teaching Methods).

FAMILY AND CONSUMER SCIENCE
(4-Adult)
Career/Technical License

HMEC 1550 Human Ecology Professions ................1 s.h.
FNUT 1512 Food Safety and Sanitation ......................1 s.h.
MRCH 1506 Clothing Selection and Image Development .........................................................3 s.h.
PHLT 2692 Human Sexuality ......................................3 s.h.
FNUT 1551 Normal Nutrition ....................................3 s.h.
FNUT 1553 Food Science & Management Principles .........................................................3 s.h.
FNUT 1553L Food Science & Management Principles Lab .........................................1 s.h.
CHFM 3731 Individual & Family Development .........................3 s.h.
CHFM 3750 Parent & Professional Relationships ................3 s.h.
PSYC 3755 Child Development ................................3 s.h.
PSYC 3756 Adolescent Development ..........................3 s.h.
or
PSYC 3758 Lifespan Development ................................3 s.h.
MRCH 3764 Family Housing & Technology ................3 s.h.
HMEC 3780 Consumer Economics ..............................3 s.h.
HMEC 4890 Communicating Contemporary Issues ................3 s.h.
HMEC 4852 Family Resource Management ................3 s.h.
HMEC 5893 Work & Family .......................................3 s.h.

Professional education exception: Candidates in this major do not take SED 4800 (Reflective Teaching Methods).

INTEGRATED LANGUAGE ARTS (7-12)
Adolescent License

The following nine required:
ENGL 2651 Introduction to Language .........................3 s.h.
ENGL 3700 Introduction to Literary Studies ..................3 s.h.
ENGL 3705 Young Adult Literature ............................3 s.h.
ENGL 3710 British Literature 1 ................................3 s.h.
ENGL 3711 British Literature 2 ................................3 s.h.
ENGL 3712 American Literature 1 ............................3 s.h.
ENGL 3713 American Literature 2 ............................3 s.h.
ENGL 3741 Advanced Writing for Teachers  .................3 s.h.
ENGL 4881 Shakespeare and His World ....................3 s.h.

All of the following (Journalism):
ENGL 2622 News Reporting .....................................3 s.h.
ENGL 4821 Advising Student Publications ...........3 s.h.

Two of the following (Communications):
CMST 2653 Group Communications ........................3 s.h.
CMST 2656 Interpersonal Communication** ...............3 s.h.
THTR 2670 Oral Interpretation ...............................3 s.h.
One of the following (World/Multicultural Lit):
- ENGL 2610 Introduction to World Literature* ........................................... 3 s.h.
- ENGL 2617 Women in Literature* .................................................. 3 s.h.
- ENGL 2618 American Literature and Diversity* ..................................... 3 s.h.
- ENGL 2620 Introduction to African Literature ........................................... 3 s.h.
- ENGL 3732 Images of Women ............................................................... 3 s.h.
- ENGL 3738 Selected Topics in World Literature .................................... 3 s.h.
- ENGL 3790 Selected Topics in Multicultural Literature ......................... 3 s.h.

One of the following (Linguistics):
- ENGL 3750 Language and Culture ....................................................... 3 s.h.
- ENGL 3757 Development of the English Language .................................. 3 s.h.
- ENGL 4850 Sociolinguistics ................................................................. 3 s.h.
- ENGL 4851 Language Acquisition ....................................................... 3 s.h.
- ENGL 4855 Advanced Linguistics ....................................................... 3 s.h.
- ENGL 4856 TESOL Methods ................................................................. 3 s.h.
- ENGL 4858 English Grammar ............................................................... 3 s.h.

One of the following (Media Literacy):
- TCOM 1595 Survey of American Mass Communication** ...................... 3 s.h.
- THTR 1590 History of Motion Pictures* ................................................. 3 s.h.
- ENGL 2665 Intro to Film Studies* ......................................................... 3 s.h.
- ENGL 3743 Prof & Tech Communication ................................................. 3 s.h.

One of the following (Upper Division American Lit):
- ENGL 3770 American Literature in Historical Perspective ...................... 3 s.h.
- ENGL 3780 American Genres ................................................................. 3 s.h.
- ENGL 4862 Themes in American Literature ............................................ 3 s.h.
- ENGL 4864 American Literary Conversations ........................................ 3 s.h.
- ENGL 4871 Black Experience in American Literature .......................... 3 s.h.

One of the following (Upper Division British Lit):
- ENGL 4830 Major Figures in British Literature ...................................... 3 s.h.
- ENGL 4831 British Genres/Circles/Movements ...................................... 3 s.h.
- ENGL 4840 The Medieval World ......................................................... 3 s.h.
- ENGL 4882 The English Renaissance .................................................. 3 s.h.
- ENGL 4886 Restoration and 18th Century British Literature .................. 3 s.h.
- ENGL 4887 The Romantic Period .......................................................... 3 s.h.
- ENGL 4892 19th Century British Studies .............................................. 3 s.h.
- ENGL 4895 Early 20th Century British Studies ..................................... 3 s.h.
- ENGL 4896 British Literature from WWII to Present ............................ 3 s.h.

One of the following (Advanced English Studies):
- ENGL 3706 Literary Theory ................................................................. 3 s.h.
- ENGL 4890 Senior Seminar ................................................................. 3 s.h.
- Additional Upper Division American Studies ........................................ 3 s.h.
- Additional Upper Division British Studies ........................................... 3 s.h.

*Fulfills GER AL requirement
**Fulfills GER SI requirement
***Fulfills GER PS requirement

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One of the following (Early British Literature):
- ENGL 4850 The Medieval World ......................................................... 3 s.h.
- ENGL 4882 The English Renaissance .................................................. 3 s.h.
- ENGL 4886 Restoration/18th Century British Literature .......................... 3 s.h.
- ENGL 4892 19th Century British Studies .............................................. 3 s.h.
- ENGL 4895 Early 20th Century British Studies ..................................... 3 s.h.
- ENGL 4896 British Literature from WWII to Present .................................. 3 s.h.
- ENGL 4831 Genres, Circles & Movements in Brit Lit ................................ 3 s.h.

One of the following (Later British Literature):
- ENGL 4877 The Romantic Period .......................................................... 3 s.h.
- ENGL 4892 19th Century British Studies .............................................. 3 s.h.
- ENGL 4895 Early 20th Century British Studies ..................................... 3 s.h.
- ENGL 4896 British Literature from WWII to Present ............................ 3 s.h.
- ENGL 4831 Genres, Circles & Movements in Brit Lit ................................ 3 s.h.

One of the following (World/Multicultural Literature):
- ENGL 2610 Introduction to World Literature ........................................... 3 s.h.
- ENGL 2620 Introduction to African Literature ........................................... 3 s.h.
- ENGL 4831 Genres, Circles & Movements in Brit Lit ................................ 3 s.h.

One of the following (Upper Division British Lit):
- ENGL 4830 Major Figures in British Literature ...................................... 3 s.h.
- ENGL 4831 British Genres/Circles/Movements ...................................... 3 s.h.
- ENGL 4840 The Medieval World ......................................................... 3 s.h.
- ENGL 4882 The English Renaissance .................................................. 3 s.h.
- ENGL 4886 Restoration and 18th Century British Literature .................. 3 s.h.
- ENGL 4887 The Romantic Period .......................................................... 3 s.h.
- ENGL 4892 19th Century British Studies .............................................. 3 s.h.
- ENGL 4895 Early 20th Century British Studies ..................................... 3 s.h.
- ENGL 4896 British Literature from WWII to Present ............................ 3 s.h.

One of the following (Advanced English Studies):
- ENGL 3706 Literary Theory ................................................................. 3 s.h.
- ENGL 4890 Senior Seminar ................................................................. 3 s.h.
- Additional Upper Division American Studies ........................................ 3 s.h.
- Additional Upper Division British Studies ........................................... 3 s.h.

*Fulfills GER AL requirement
**Fulfills GER SI requirement
***Fulfills GER PS requirement

---

Linguistics—required
- ENGL 4830 Major Figures in British Literature ...................................... 3 s.h.

One of the following:
- ENGL 3750 Language & Culture .......................................................... 3 s.h.
- ENGL 3757 Development of the English Language .................................. 3 s.h.
- ENGL 4850 Sociolinguistics ................................................................. 3 s.h.
- ENGL 4851 Language Acquisition ....................................................... 3 s.h.
- ENGL 4855 Advanced Linguistics ....................................................... 3 s.h.
- ENGL 4856 TESOL Methods ................................................................. 3 s.h.
- ENGL 4858 English Grammar ............................................................... 3 s.h.

Writing
- ENGL 3741 Advanced Writing for Teachers ............................................ 3 s.h.

(SPECIAL NOTE: TERG 3711 and ENGL 3741 are taken together the semester before taking the SED cluster.)

Oral Communication
- CMST 2653 Group Communication ..................................................... 3 s.h.
- CMST 2656 Interpersonal Communication ........................................... 3 s.h.
- THTR 2670 Oral Interpretation .............................................................. 3 s.h.

Journalism
- ENGL/JOUR 2622 News Reporting ....................................................... 3 s.h.
- ENGL/JOUR 4821 Advising Student Publications ..................................... 3 s.h.
One of the following:
ENGL 2665* Intro to Film Study ................... 3 s.h.
ENGL 3743 Professional and Technical
Communication ............................................ 3 s.h.
ENGL 3765 Film Genres ................................... 3 s.h.
ENGL 4865 Selected Topics in Film ................. 3 s.h.
TCOM 1595 Survey of Mass American
Communication ............................................. 3 s.h.
THTR 1590* History of Motion Pictures .......... 3 s.h.
JOUR 3723 Edit/Design Newspapers .............. 3 s.h.

Note: This licensure area has specific GER requirements. Please refer to the curriculum advisement sheet in the College of Education academic advising office.

*These courses satisfy the Artistic & Literary Perspectives requirement.

INTEGRATED MATHEMATICS (7-12)
Adolescent License

All of the following:
MATH 1571 Calculus 1 .................................. 4 s.h.
MATH 1572 Calculus 2 .................................. 4 s.h.
MATH 2673 Calculus 3 .................................. 4 s.h.
MATH 3715 Discrete Math ............................... 3 s.h.
MATH 3720 Linear Algebra Matrix Theory ....... 3 s.h.
MATH 3721 Abstract Algebra ............................ 4 s.h.
STAT 3743 Probability & Statistics .................. 4 s.h.
MATH 3750 History of Math ............................. 3 s.h.
MATH 3751 Real Analysis 1 ............................. 4 s.h.
MATH 4830 Foundations of Geometry ............. 3 s.h.
MATH 4896 Senior Research Project ................. 2 s.h.
MATH 5832 Euclidian Transformations ............. 3 s.h.
CSIS 2610 Program/Problem Solving ............... 4 s.h.
Elective from: MATH 3705, 5822, 5828, 5835, 5845 or 5895 ....... 3 s.h.

INTEGRATED SCIENCES (7-12)
Adolescent License

All of the following:
MATH 1571 Calculus 1 .................................. 4 s.h.
MATH 1572 Calculus 2 .................................. 4 s.h.
MATH 2673 Calculus 3 .................................. 4 s.h.
MATH 3715 Discrete Math ............................... 3 s.h.
MATH 3720 Linear Algebra Matrix Theory ....... 3 s.h.
MATH 3721 Abstract Algebra ............................ 4 s.h.
STAT 3743 Probability & Statistics .................. 4 s.h.
MATH 3750 History of Math ............................. 3 s.h.
MATH 3751 Real Analysis 1 ............................. 4 s.h.
MATH 4830 Foundations of Geometry ............. 3 s.h.
MATH 4896 Senior Research Project ................. 2 s.h.
MATH 5832 Euclidian Transformations ............. 3 s.h.
CSIS 2610 Program/Problem Solving ............... 4 s.h.
Elective from: MATH 3705, 5822, 5828, 5835, 5845 or 5895 ....... 3 s.h.

2. CHEMISTRY
All of the following:
CHEM 1515 General Chemistry 1 ................... 3 s.h.
CHEM 1516 General Chemistry 2 ................... 3 s.h.
CHEM 2604 Quantitative Analysis ................. 3 s.h.
CHEM 3719 Organic Chemistry 1 ................. 4 s.h.
CHEM 3720 Organic Chemistry 2 ................. 4 s.h.
Any 3000 or 4000 level chemistry course ...... 3 s.h.

3. PHYSICS
All of the following:
PHYS 2608 Sound ....................................... 3 s.h.
PHYS 2610 General Physics 1 .......................... 4 s.h.
PHYS 2610L General Physics Lab 1 ................... 1 s.h.
PHYS 2611 General Physics 2 .......................... 4 s.h.
PHYS 2611L General Physics Lab 2 ................... 1 s.h.
Select a minimum of 11 s.h. in Physics from the following:
PHYS 3701 Intermed Class Mech 1 .................. 3 s.h.
PHYS 3702 Intermed Class Mech 2 .................. 3 s.h.
PHYS 3704/3704L Modern Physics ................... 4 s.h.
PHYS 3705 Thermo/Class Stat Mech ............... 3 s.h.
PHYS 3705L Thermo/Class Stat Mech Lab ........ 1 s.h.
PHYS 3722/3722L Advanced Optics Light ........ 4 s.h.
PHYS 4805 Undergrad Research ...................... 3 s.h.
PHYS 5890 Physics & Astronomy for Educators ...... 3 s.h.
PHYS 2607 Phisical Science for Middle and Secondary Education .......... 4 s.h.

4. EARTH/SPACE SCIENCE
All of the following:
GEOG 2602/L Principles of Biology & Lab ........ 3 s.h.
The following areas are secondary concentrations.

Select one from the following:
GEOG 2602/L Principles of Biology & Lab ........ 3 s.h.
GEOG 2615 Geol in the Environment 1 ............. 3 s.h.
ENST 2600 Foundation of Environmental Studies ....... 3 s.h.

Select one from the following:
GEOG 1505 Physical Geology ......................... 4 s.h.
GEOG 2605 Historical Geology ....................... 4 s.h.
GEOG 2602 Introduction to Oceanography ......... 3 s.h.
GEOG 2630 Weather ........................................ 3 s.h.
ASTR 1504 Descriptive Astronomy .................. 3 s.h.
ASTR 2609 Moon & Planets ............................ 3 s.h.

Select one from the following:
GEOG 3720 Field Investigations in Geology ....... 3 s.h.
GEOG 3703 Human Impacts on the Environment .... 3 s.h.
GEOG 3730 Global Climate ............................ 3 s.h.
GEOG 3737 Soils and Land Use ........................ 3 s.h.

Then take three (3) remaining science fields of the following course sequences as secondary concentrations:

a. BIOLOGY
BIOL 2601/L Principles of Biology & Lab ........ 4 s.h.
BIOL 2602/L Principles of Biology 2 & Lab ....... 4 s.h.
Select 5 s.h. from the following:
BIOL 3741 Animal Diversity ......................... 4 s.h.
BIOL 3702 Microbiology ............................... 4 s.h.
BIOL 3721 Genetics ...................................... 3 s.h.
BIOL 3762 Field Botany ................................ 4 s.h.
BIOL 3780 Evolutionary Ecology ................... 5 s.h.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 4890 Molecular Genetics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>BIOL 4890L Molecular Genetics Lab</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>BIOL 3730 Human Physiology</td>
<td>5 s.h.</td>
</tr>
<tr>
<td><strong>CHEMISTRY</strong></td>
<td></td>
</tr>
<tr>
<td>CHEM 1515 General Chemistry 1</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>CHEM 1516 General Chemistry 2</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>CHEM 3719 Organic Chemistry 1</td>
<td>4 s.h.</td>
</tr>
<tr>
<td><strong>Select one course from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>CHEM 2604 Quantitative Analysis</td>
<td>5 s.h.</td>
</tr>
<tr>
<td>CHEM 3720 Organic Chemistry 2</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>CHEM 3785 Biochemistry 1</td>
<td>3 s.h.</td>
</tr>
<tr>
<td><strong>PHYSICS</strong></td>
<td></td>
</tr>
<tr>
<td>All of the following:</td>
<td></td>
</tr>
<tr>
<td>PHYS 2608 Sound</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHYS 2610 General Physics 1</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>PHYS 2610L General Physics Lab</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>PHYS 2611 General Physics 2</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>PHYS 2611L General Physics Lab</td>
<td>1 s.h.</td>
</tr>
<tr>
<td><strong>Select a minimum of 3 s.h. in Physics from the following:</strong></td>
<td></td>
</tr>
<tr>
<td>PHYS 3701 Intermed Class Mech 1</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHYS 3702 Intermed Class Mech 2</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHYS 3704/L Thermo/Class Stat Mech</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>PHYS 3705/L Modern Physics</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>PHYS 3722/L Advanced Optics Light</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>PHYS 4805 Undergrad Research</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHYS 5890 Physics &amp; Astronomy for Educators</td>
<td>1-3 s.h.</td>
</tr>
<tr>
<td>PHYS 2607 Physical Science for Middle and Secondary Education</td>
<td>4 s.h.</td>
</tr>
<tr>
<td><strong>EARTH/SPACE SCIENCE</strong></td>
<td></td>
</tr>
<tr>
<td>GEOL 1505 Physical Geology</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>GEOL 2602 Introduction to Oceanography</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GEOG 2630 Weather</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ASTR 1504 Descriptive Astronomy</td>
<td>3 s.h.</td>
</tr>
<tr>
<td><strong>Select one of the following:</strong></td>
<td></td>
</tr>
<tr>
<td>ENST 2600 Foundations of Environmental Study</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GEOL 2615 Geol in the Environment</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GEOG 3703 Human Impact on the Environment</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GEOG 3730 Global Climate</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

**Professional education exception:** Candidates in this major are required to take TEMC 3707 (Science/Technology/Society).

**INTEGRATED SOCIAL STUDIES (7-12)**

| **Adolescent License**                                               |         |
| All of the following:                                                |         |
| HIST 1511 World Civilization to 1500                                  | 3 s.h.  |
| HIST 1512 World Civilization since 1500                              | 3 s.h.  |
| HIST 2605 Turning Points in US 1                                     | 3 s.h.  |
| HIST 2606 Turning Points in US 2                                     | 3 s.h.  |
| HIST 3748 History of Ohio                                            | 3 s.h.  |
| History Upper Division Elective                                      | 3 s.h.  |
| History Upper Division Elective                                      | 3 s.h.  |
| GEOG 2640 Human Geography                                            | 3 s.h.  |
| POL 1560 American Government                                         | 3 s.h.  |
| LASS 4805 Intr Social Science Seminar                                | 3 s.h.  |
| ECON 2610 Principles 1                                                | 3 s.h.  |
| **Select one of the following:**                                     |         |
| SOC 1500 Introduction to Sociology                                   | 3 s.h.  |
| ANTH 1500 Intro to Anthropology                                     | 3 s.h.  |

**Four courses (12 s.h.) in two of the following disciplines total (24 s.h.):**

- Political Science
- Economics
- ECON 2630
- Sociology/Anthropology
- Geography

**One course (3 s.h.) in two remaining (not taken in the above) disciplines: (6 s.h.)**

- Political Science
- Economics
- ECON 2630
- Sociology/Anthropology
- Geography

**must include 12 s.h. of courses at upper division level. In Geography, a physical geography course may be selected.**

**ITALIAN (P-12)**

| **Multi-Age License**                                                |         |
| All twelve (12) courses listed below are required:                  |         |
| ITAL 1505 Elementary                                                 | 4 s.h.  |
| ITAL 1550 Elementary is waived if student starts with 2600 Intermediate. An ITAL 3700 or 4800 level course must be substituted
| ITAL 2600 Intermediate                                               | 4 s.h.  |
| ITAL 2600 Intermediate is waived if student starts with 2605 Advanced Intermediate. An ITAL 3700 or 4800 level course must be substituted
| ITAL 2605 Advanced Intermediate (required for Admission to Teacher Education Program) | 3 s.h.  |
| ITAL 3735 Civilization                                               | 3 s.h.  |
| ITAL 3720 Advanced Grammar and Composition (W)                      | 3 s.h.  |
| ITAL 3725 Phonetics                                                  | 3 s.h.  |
| ITAL 3730 Conversation (O)                                           | 3 s.h.  |
| ITAL 3750 Literature of the 20th Century                             | 3 s.h.  |
| ITAL 4800 "Risorgimento," Romantacism, and Roma (1800-1860)          | 3 s.h.  |
| ITAL 4825 Viability, "Verismo," and Verga (1860-1920)                | 3 s.h.  |
| ITAL 4880 Research and Writing                                      | 3 s.h.  |
| *FNLG 4801 Methods of Foreign Lang Teaching                         | 3 s.h.  |
| *ENGL 4850 Sociolinguistics                                         | 3 s.h.  |
| *ENGL 4851 Language Acquisition                                     | 3 s.h.  |

**Professional education exception:** Candidates in this major take MULT 4824 (Methods of Teaching P-12). In addition, they do not take SED 4800 (Reflective Teaching Methods).

Studying abroad in Italy is highly recommended.

Note: Courses marked with * are taken only once when acquiring licensure in multiple languages.

**LIFE SCIENCES (7-12)**

| **Adolescent License**                                               |         |
| All of the following:                                                |         |
| BIOL 2601/L Princ of Biology 1 & Lab                                 | 4 s.h.  |
| BIOL 2602/L Princ of Biology 2 & Lab                                 | 4 s.h.  |
| BIOL 3741 Animal Diversity                                           | 4 s.h.  |
| BIOL 3702 Microbiology                                               | 4 s.h.  |
### PHYSICAL EDUCATION (P-12)
#### Multi-Age License

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPES 1595 Intro. &amp; Concepts in HPES</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>HPES 2605 Sports First Aid</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 2628 Movement for Early Childhood</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 2661 Games Analysis</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 2672/L Intro. to Biomechanics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 3766 Princ. &amp; Analysis of Motor Dev.</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 4851 Hist. &amp; Phil. of Physical Education/Sport</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 4808 Assess Instruments &amp; Strategies in Phys Ed</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 4895 Adapted Physical Activity</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 4899 Physiology of Exercise for Phys Ed</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>HPES 4899L Physiology of Exercise for Phys Ed Lab</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>HPES 3767 Pedagogy in P-12 PE</td>
<td>4 s.h.</td>
</tr>
<tr>
<td>HPES 3780 Methods of Teaching Dance</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>HPES 4876 Teaching of Elementary P.E.</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 4878 Teaching of Middle/Secondary P.E.</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HPES 1506 Perf./Anlys. of Track &amp; Field</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>HPES 1567 Perf./Anlys. of Team Sports</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>HPES 1574 Perf./Anlys. of Lifetime Sports</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>HPES 1575 Perf./Anlys. of Racket Sports</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>HPES 1577 Perf./Anlys. of Aquatic Activities</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>HPES 1579 Children’s Rhythmic Movement</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>HPES 1589 Scientific Basis of Fitness</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>HPES 2610 Introduction to Outdoor Pursuits</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>BIOL 1545 + 1545L</td>
<td>4 s.h. + 1 s.h.</td>
</tr>
<tr>
<td>BIOL 1551 + 1552</td>
<td>4 s.h. + 4 s.h.</td>
</tr>
</tbody>
</table>

**Professional education exception:** Candidates in this major are required to take TEMC 3707 (Science/Technology/Society).

Select 15 s.h. from the following three areas with at least 1 course in each area:

- CHEMISTRY
- EARTH/SPACE SCIENCE
- PHYSICS

A course in computer science is recommended but not required.

### PHYSICAL SCIENCES (7-12)
#### Adolescent License

**All of the following:**
- CHEM 1515 General Chemistry 1 ............... 4 s.h.
- CHEM 1516 General Chemistry 2 ............... 4 s.h.
- CHEM 2604 Quantitative Analysis ............. 5 s.h.
- CHEM 3719 Organic Chemistry 1 ............... 4 s.h.
- CHEM 3720 Organic Chemistry 2 ............... 4 s.h.

Any 3000 or 4000 level chemistry course ........ 3 s.h.

**All of the following:**
- PHYS 2608 Sound .................................. 3 s.h.
- PHYS 2610 General Physics 1 ................... 4 s.h.
- PHYS 2610L General Physics Lab ............... 1 s.h.
- PHYS 2611 General Physics 2 ................... 4 s.h.
- PHYS 2611L General Physics Lab 2 ............. 1 s.h.

Select a minimum of 12 s.h. in Physics from the following:
- PHYS 3701 Intermed Class Mech 1 ............ 3 s.h.
- PHYS 3702 Intermed Class Mech 2 ............ 3 s.h.
- PHYS 3704/3704L Thermo/Class Stat Mech & Lab .................................................. 4 s.h.
- PHYS 3705/3705L Modern Physics & Lab ........ 4 s.h.
- PHYS 3722/3722L Advanced Optics Light & Lab .................................................. 4 s.h.
- PHYS 4805 Undergrad Physics Research ........ 3 s.h.
- PHYS 5890 Physics & Astronomy for Educators ............................................. 1-3 s.h.
- PHYS 2607 Physical Science for Middle and Secondary Educ ................................ 4 s.h.

6 s.h. from the following:
- BIOL 2601 Principles of Biology 1 & Lab ...... 4 s.h.
- BIOL 2602 Principles of Biology 2 & Lab ...... 4 s.h.
- GEOL 1505 Physical Geology ..................... 4 s.h.
- GEOL 2602 Intro to Oceanography ............. 3 s.h.
- GEOG 2630 Weather ................................ 3 s.h.
- ASTR 1504 Descriptive Astronomy ............. 3 s.h.

**All of the following mathematics courses:**
- ______ MATH 1571 Calculus 1 ................. 4 s.h.
- ______ MATH 1572 Calculus 2 ................. 4 s.h.
- ______ MATH 2673 Calculus 3 ................. 4 s.h.

**Professional education exception:** Candidates in this major are required to take TEMC 3707 (Science/Technology/Society).

A course in computer science is recommended, but not required.

### SPANISH (P-12)
#### Multi-Age License

SPAN 1550 Elementary is waived if student starts with 2600 Intermediate - A SPAN 3700 or 4800 level course must be substituted

SPAN 1550 Elementary ................................ 4 s.h.

SPAN 2600 Intermediate is waived if student starts with 2605 Advanced Intermediate - A SPAN 3700 or 4800 level course must be substituted

SPAN 2600 Intermediate ................................ 4 s.h.
All eight (8) courses listed below are required
SPAN 2605 Advanced Intermediate (required for Admission to Teacher Education Program) ........................................................... 3 s.h.
SPAN 2655 Conversation for Proficiency 1 ...... 3 s.h.
SPAN 3724 Pronunciation ................................................. 3 s.h.
SPAN 3735 Advanced Grammar & Composition ........................................................... 3 s.h.
SPAN 3755 Conversation for Proficiency 2 ...... 3 s.h.
*FNLG 4801 Methods of Foreign Lang Teaching ........................................................... 3 s.h.
*ENGL 4850 Sociolinguistics ................................................. 3 s.h.
*ENGL 4851 Language Acquisition ................................................. 3 s.h.

Select one (1) of the following courses
SPAN 3752 Spanish Culture and Literature 1 ........................................................ 3 s.h.
SPAN 3753 Spanish Culture and Literature 2 ........................................................ 3 s.h.

Select one (1) of the following courses
SPAN 3766 Spanish-American Culture & Lit 1 ........................................................ 3 s.h.
SPAN 3757 Spanish-American Culture & Lit 2 ........................................................ 3 s.h.

Select one (1) of the following courses
SPAN 3736 Introduction to Spanish Linguistics ......................................................... 3 s.h.
SPAN 3737 Translation and Composition ......................................................... 3 s.h.
SPAN 3758 Culture & Lit of Spanish-Speaking Groups in the U.S. ......................................................... 3 s.h.

Select one (1) of the following courses
SPAN 5855 Topics in Spanish Lang & Linguistics ......................................................... 3 s.h.
SPAN 5870 Topics in Spanish Literature: Spain ......................................................... 3 s.h.
SPAN 5885 Topics in Hispanic Lit & Film ......................................................... 3 s.h.
SPAN 5890 Topics in Spanish Lit: Spanish-America ......................................................... 3 s.h.

Professional education exception: Candidates in this major take MULT 4824 (Methods of Teaching P-12). In addition, they do not take SED 4800 (Reflective Teaching Methods).

Studying abroad in a Spanish-speaking country is highly recommended.

Note: Courses marked with * are taken only once when acquiring license in multiple languages.

Endorsement Programs

The Department of Teacher Education offers endorsement programs in some areas. These endorsements may be added to an existing teacher license, valid for teaching the subjects or learners named. Thus, endorsements are not majors and do not stand by themselves as areas of study. Individuals who complete an endorsement area are limited to the age and grade levels listed on the teacher license.

Youngstown State University offers the following undergraduate endorsement areas:

- Early Childhood Generalist
- Middle Childhood Generalist

Advisement is provided by the academic advisors in the College of Education. See the curriculum advisement sheets for these endorsements in the College of Education academic advising office for additional information.
The College of Fine and Performing Arts

Bryan DePoy, Dean

The College of Fine and Performing Arts consists of the Department of Art, the Department of Communication, the Dana School of Music, and the Department of Theater and Dance.

The Art Department is accredited by the National Association of Schools of Art and Design and the Dana School of Music is a member of the National Association of Schools of Music. The National Association of Schools of Theatre accredits the Department of Theater and Dance.

The degrees granted are the Bachelor of Arts (B.A.), Bachelor of Fine Arts (B.F.A.), Bachelor of Music (B.M.). Majors are offered in applied music (performance), music education, art history, music history and literature, communication studies, studio art, telecommunication studies, theater, musical theater, music theory, or composition; and art education (in conjunction with the Beeghly College of Education).

The activities of the college are conducted primarily in the fine and performing arts center, Bliss Hall. This structure houses the administrative offices of the College as well as classrooms, studios, laboratories and performance areas serving most of the curricular and co-curricular programs in art, communication, theater, and music. Additional activities are held in

The College holds as its major objective the highest quality of instruction, including pre-professional training in areas such as studio art, applied music, communication studies, telecommunication studies, and theater; the training of teachers; and the offering of a wide variety of courses to non-majors from all areas of the University.

The major programs in the College constitute an excellent basis for a liberal education. Students not pursuing degrees in the College of Fine and Performing Arts are welcomed and encouraged to participate in special opportunities in art, music, or communication and theater as a means of broadening and complementing their university experience.

Another important objective of the College is to provide the University community maximum opportunity for experiencing the fine arts.

*For the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act, please see Appendix B of this Bulletin.

Degree Requirements

High School Preparation

Please refer to the “High School Preparation” section in the front section of this Bulletin under Admissions.

Music majors will need to have sufficient musical performance ability to undertake college-level music courses. Voice majors will benefit from taking French, German, and/or Italian in high school.

Requirements for the B.F.A., B.M., and B.A. Degrees

<table>
<thead>
<tr>
<th>Basic Skill Courses (See “General Education Requirements” under “Academic Policies and Procedures” in the front section of this Bulletin)</th>
<th>Semester Hours Of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1550, 1551, Writing 1, 2 ..................................................</td>
<td>6 6 6</td>
</tr>
<tr>
<td>Math 2623 ......................................................................................</td>
<td>3 3 3</td>
</tr>
<tr>
<td>COMM 1545 ..................................................................................</td>
<td>3 3 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Domain Courses (See “General Education Requirements” under “Academic Policies and Procedures” in the front section of this Bulletin)</th>
<th>Semester Hours Of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artistic &amp; Literary Perspective .................................</td>
<td>6-9 6-9 6-9</td>
</tr>
<tr>
<td>Societies &amp; Institutions ..................................................</td>
<td>6-9 6-9 6-9</td>
</tr>
<tr>
<td>Natural Science (Includes one lab science) ..................</td>
<td>7-10 7-10 7-10</td>
</tr>
</tbody>
</table>

The above three domains must total 8 courses

<table>
<thead>
<tr>
<th>Professional Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal &amp; Social Responsibility ..................................</td>
</tr>
<tr>
<td>Selected Topics ..................................................................</td>
</tr>
<tr>
<td>Foreign Language ................................................................</td>
</tr>
</tbody>
</table>

Professional Courses
These are listed under the appropriate department or school curricula.

Fine and Performing Arts students pursuing the B.S. in Ed. degree should consult the Beeghly College of Education section of this catalog.

*This requirement is for voice majors only. Each student must take the equivalent of an introductory course (1530) in French, German, and Italian. Consult the Department of Foreign Languages and Literatures for information about the Foreign Language Placement Test.

**Students must complete the equivalent of intermediate study (2600) in one language. Consult the Department of Foreign Languages and Literatures for information about the Foreign Language Placement Test.
Additional Degree Requirements

- Upper-division status (including completion of any specified preparatory units lacking at entrance)
- Major and minor requirements
- Course-level requirements
- Point index requirement
- Residency requirement
- Completion of semester hours required for the degree
- Application for graduation

Courses of Instruction

Course descriptions can be found in a separate section in the back of this Bulletin.

DEPARTMENT OF ART
330-941-3627

Professors Moring, Moseley, Sarro; Associate Professors Adu-Poku, McCullough, Nelson, Smith; Assistant Professors Banach, Christiansen Erb, Chalmers, Crnjak, D’Uva, Gill, Nelson, Sperry.

The Department of Art offers courses which satisfy major requirements in art for the degrees of Bachelor of Fine Arts, Bachelor of Arts and Bachelor of Science in Education. These degrees may be earned in eight semesters if students average 16 hours per semester, with the exception of art education which requires nine semesters. The Department also offers a Museum Studies Certificate requiring 18 semester hours.

The requirements for curricula and for graduation are in accordance with the published regulations of the National Association of Schools of Art and Design.

For the Bachelor of Fine Arts degree, the programs in studio art are designed to familiarize the student with the basic concepts in art and the language of visual form. Concentration is on the development and involvement of the student with the processes and practices of art. A minimum of 127 semester hours is required for the B.F.A. degree. Most B.F.A. students require four and a half years to complete the degree. Passing Art 1503, Foundation Portfolio Review, is required at the completion of the foundation sequence to continue in the program. In addition, B.F.A. students are required to exhibit in a senior show at the John J. McDonough Museum of Art. The curricula for studio art are listed below.

For the Bachelor of Arts degree, the curriculum in art history is listed below. The Art History major is required to complete a minimum of 40 semester hours in art history beyond the freshman level, plus 6 hours of studio art electives. In addition, Art History majors must complete 11 semester hours in a foreign language to include upper division.

A minimum GPA of 2.5 is required to transfer into a Department of Art degree program.

Students majoring in art who wish to qualify for licensure in Pre-K–12 art are required to complete a minimum of 66 semester hours, at least 15 of them in art history. These students, after completing two years of study with a point average of 3.0, may apply for admission to the Beeghly College of Education. (Other requirements for admission are listed under the College of Education section.) No minor is required for the special certificate.

Studio art credit for transfer students is awarded based on a combination of portfolio work and prior college credit. Transfer credit is not awarded solely on a listing of courses on a transcript except for state mandated transfer courses. Transfer students should make an appointment to show their portfolios.

Bachelor of Fine Arts Curricula

The areas of studio art emphasis for the B.F.A. degree are: general fine art, art and technology, graphic design, painting, photography, printmaking and spatial arts.

The general requirements for this degree are listed at the beginning of the College of Fine and Performing Arts section.

Please note that lab fees are charged for all studio classes which help pay for some supplies, lab assistants, software, and small equipment.

Learning Outcomes

The student learning outcomes for studio art are as follows:

- Students will demonstrate thorough knowledge of arts vocabulary.
- Students will demonstrate skills in communicating verbally and visually in their knowledge about the arts.
- Students will achieve the highest possible level of technical skills in the appropriate medium.
- Students will achieve the highest possible level of content expression in the appropriate medium.
- Students will demonstrate working knowledge of trends in general art history and theory with an emphasis in 20th century art.

Studio Art

General Fine Art Studio Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1521</td>
<td>Foundation Drawing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1522</td>
<td>Intermediate Drawing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2-D Design</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1502</td>
<td>Fundamentals of 3-D Design</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1503</td>
<td>Foundation Portfolio Review</td>
<td>0 s.h.</td>
</tr>
</tbody>
</table>

Not all emphases or programs are available in the evening. Students seeking a degree in art through an evening program should consult with the department chair to determine if it is possible.
ART 3721 Expressive Drawing ..................3 s.h.
ART 2691 Intro. to Digital Imaging ..........3 s.h.
ART 2621 Life Drawing .........................3 s.h.
ART 2625 Intro. to Printmaking:
Intaglio and Relief ............................3 s.h.
or
ART 2626 Intro. to Printmaking:
Lithography and Screenprinting ..3 s.h.
or
ART 2631 Intro. to Ceramics .....................3 s.h.
ART 2611 Intro. to Sculpture .................3 s.h.
ART 2671 Intro. to B/W Photography ....3 s.h.
ART 2650 Intro. to Painting ....................3 s.h.
ART 2653 Watercolor ............................3 s.h.
ART 2615 Intro. to Metals .......................3 s.h.
ART 37XX/48XX Studio Art Electives ........24 s.h.
ART 3703 Junior Portfolio Review ..........1 s.h.
ART 4803 Senior Seminar ........................3 s.h.
ART 4802 Senior Project ..........................3 s.h.

Art History and Theory
ART 1541 Survey of Art History 1 ..........3 s.h.
ART 1542 Survey of Art History 2 ..........3 s.h.
ART 3788 Theory of Art ........................3 s.h.
ART 5882 20th Century from 1960 ....3 s.h.
ART 37XX Art history electives ..........6 s.h.

Studio Art
Graphic Design Emphasis
ART 1521 Foundation Drawing ............3 s.h.
ART 1522 Intermediate Drawing ..........3 s.h.
ART 1501 Fundamentals of 2-D Design ..3 s.h.
ART 1502 Fundamentals of 3-D Design ..3 s.h.
ART 1503 Foundation Portfolio Review ..0 s.h.
ART 2650 Intro. to Painting .................3 s.h.
ART 2691 Intro. to Digital Imaging ......3 s.h.
ART 2625 Intro. to Printmaking:
Intaglio and Relief ............................3 s.h.
or
ART 2626 Intro. to Printmaking:
Lithography and Screenprinting ..3 s.h.
or
ART 2631 Intro. to Ceramics .....................3 s.h.
ART 2611 Intro. to Sculpture .................3 s.h.
ART 2661 Intro. to Graphic Design ..........3 s.h.
ART 2652 Intro. to Typography ..............3 s.h.
ART 3761 Intermediate Graphic Design ....3 s.h.
ART 3703 Junior Portfolio Review ..........1 s.h.
ART 3763 Illustration ........................3 s.h.
ART 3762 Advanced Typography .............3 s.h.
ART 4863 Identity Systems ....................3 s.h.
ART 3767 Web Page Design .....................3 s.h.
ART 2671 Intro. to B/W Photo .................3 s.h.
ART 4800 Studio Problems ...................3 s.h.
or
ART 4867 Graphic Design Internship ..........3 s.h.
ART 3768 Pre-Press Production .............3 s.h.
ART 4864 3-D Graphics .........................3 s.h.
ART 4861 Publication Design ..................3 s.h.
ART 4803 Senior Seminar .......................3 s.h.
ART 4865 Advertising Design ..................3 s.h.
ART 37XX Studio Art Electives .............6 s.h.

Art History and Theory
ART 1541 Survey of Art History 1 ..........3 s.h.
ART 1542 Survey of Art History 2 ..........3 s.h.
ART 3788 Theory of Art ........................3 s.h.
ART 3783 History of Graphic Design ....3 s.h.
ART 37XX Art history electives ..........6 s.h.

Studio Art
Painting / Printmaking Emphasis
ART 1501 Fund. of 2-D Design ............3 s.h.
ART 1502 Fund. of 3-D Design ............3 s.h.
ART 1521 Foundation Drawing ............3 s.h.
ART 1522 Intermediate Drawing ..........3 s.h.
ART 1503 Foundation Portfolio Review ..0 s.h.
ART 2611 Intro. To Sculpture .................3 s.h.
ART 2621 Life Drawing ..........................3 s.h.
ART 2625 Intro. to Printmaking:
Intaglio and Relief ............................3 s.h.
or
ART 2626 Intro. to Printmaking:
Lithography and Screenprinting ..3 s.h.
or
ART 2631 Intro. To Ceramics .................3 s.h.
ART 2650 Intro. to Painting ....................3 s.h.
ART 2653 Watercolor Painting ...............3 s.h.
ART 2671 Intro to B/W Photography ....3 s.h.
ART 2691 Intro. To Digital Imaging ....3 s.h.
ART 3721 Expressive Drawing .................3 s.h.
ART 3703 Junior Portfolio Review ..........1 s.h.
ART 3751 Intermediate Painting 1 ..........3 s.h.
ART 3752 Intermediate Painting 2 ..........3 s.h.
ART 4802 Senior Project ........................3 s.h.
ART 4803 Senior Seminar .......................3 s.h.
ART 3725 Intermediate Printmaking:
Intaglio and Relief ............................3 s.h.
ART 3748 Special Topics, Studio Art ..........3 s.h.
ART 4824 Advanced Printmaking ..........3 s.h.
ART 4852 Advanced Painting .................3 s.h.
ART 37xx/48xx, Studio Art Elective ..........12 s.h.

Art History and Theory
ART 1541 Survey of Art History 1 ..........3 s.h.
ART 1542 Survey of Art History 2 ..........3 s.h.
ART 3788 Theory of Art ........................3 s.h.
ART 5881 20th Century Art to 1960 ....3 s.h.
ART 5882 20th Century Art from 1960 ....3 s.h.
ART History elective (37 xx) .................6 s.h.

Studio Art
Photography Emphasis
ART 1521 Foundation Drawing ............3 s.h.
ART 1522 Intermediate Drawing ..........3 s.h.
ART 1501 Fundamentals of 2-D Design ..3 s.h.
ART 1502 Fundamentals of 3-D Design ..3 s.h.
ART 1503 Foundation Portfolio Review ..0 s.h.
ART 2650 Intro. to Painting ....................3 s.h.
ART 2625 Intro. to Printmaking:
Intaglio and Relief ............................3 s.h.
or
ART 2626 Intro. to Printmaking:
Lithography and Screenprinting ..3 s.h.
or
ART 2691 Intro. to Digital Imaging ....3 s.h.
ART 2661 Intro. to Graphic Design or
Art elective .................................3 s.h.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2631</td>
<td>Intro. to Ceramics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2611</td>
<td>Intro. to Sculpture</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2671</td>
<td>Intro. to B&amp;W Photo</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2672</td>
<td>Color Photography</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2673</td>
<td>Digital Photo 1</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3703</td>
<td>Junior Portfolio Review</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>ART 3776</td>
<td>Special Topics</td>
<td>6 s.h.</td>
</tr>
<tr>
<td>ART 3773</td>
<td>Intermediate B&amp;W Photo</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3774</td>
<td>Digital Photo 2</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 5871</td>
<td>Adv. Photo: Studio</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 5872</td>
<td>Adv. Photo: Studio Mural</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 4802</td>
<td>Senior Project</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3775</td>
<td>Photo: Issues &amp; Frac.</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 4803</td>
<td>Senior Seminar</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 37XX</td>
<td>Studio Art Elective</td>
<td>6 s.h.</td>
</tr>
<tr>
<td>ART 5881</td>
<td>20th Century Art to 1960</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3788</td>
<td>Theory of Art</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1542</td>
<td>Survey of Art History 2</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1541</td>
<td>Survey of Art History 1</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 37XX</td>
<td>Studio Art Elective</td>
<td>6 s.h.</td>
</tr>
<tr>
<td>ART 4803</td>
<td>Seminar in Art History</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

### Art History and Theory

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1541</td>
<td>Survey of Art History 1</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1542</td>
<td>Survey of Art History 2</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3778</td>
<td>Theory of Art</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 5881</td>
<td>20th Century to 1960</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 5882</td>
<td>20th Century from 1960</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3785</td>
<td>History of Still Photography</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 37XX</td>
<td>Art Hist. Elec.</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

### Studio Art

#### Spatial Arts Emphasis

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1521</td>
<td>Foundation Drawing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1522</td>
<td>Intermediate Drawing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1501</td>
<td>Fundamentals of 2-D Design</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1502</td>
<td>Fundamentals of 3-D Design</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1503</td>
<td>Foundation Portfolio Review</td>
<td>0 s.h.</td>
</tr>
<tr>
<td>ART 3721</td>
<td>Expressive Drawing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2691</td>
<td>Intro. to Digital Imaging</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2621</td>
<td>Life Drawing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2625</td>
<td>Intro. to Printmaking: Intaglio and Relief</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2626</td>
<td>Intro. to Printmaking: Lithography and Screenprinting</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2650</td>
<td>Intro. to Painting</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2671</td>
<td>Intro. to B&amp;W Photo</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2631</td>
<td>Intro. to Ceramics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3732</td>
<td>Intermediate Ceramics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3733</td>
<td>Advanced Ceramics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 2611</td>
<td>Intro. to Sculpture</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3712</td>
<td>Intermediate Sculpture</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3713</td>
<td>Advanced Sculpture</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 4834</td>
<td>Advanced Studio</td>
<td>9 s.h.</td>
</tr>
<tr>
<td>ART 37XX</td>
<td>Studio Art Electives</td>
<td>9 s.h.</td>
</tr>
<tr>
<td>ART 37XX</td>
<td>Junior Portfolio Review</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>ART 4803</td>
<td>Senior Seminar</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 4802</td>
<td>Senior Project</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

### Art History and Theory

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 1541</td>
<td>Survey of Art History</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1542</td>
<td>Survey of Art History</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 3788</td>
<td>Theory of Art</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 5881</td>
<td>20th Century to 1960</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 5882</td>
<td>20th Century from 1960</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 37XX</td>
<td>Art History Electives</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

### Bachelor of Arts Curriculum—Art History

#### Learning Outcomes

- Students will recognize the works and artists of all major periods and cultures.
- Students will learn the basic forms of analysis, including stylistic, iconographic, technical, and social analysis.
- Students will develop the research skills needed for the study of primary visual materials, and for the use of primary and secondary sources.

#### Major Requirements

- **Art History Electives:**
  - Three of any 3700 or higher Art History, 3 s.h. each

#### Two of the following:

- ART 3741 Topics in Medieval Art                       | 3 s.h. |
- ART 3742 Topics in Renaissance Art                    | 3 s.h. |
- ART 3744 17th/18th Century American Art               | 3 s.h. |
- ART 3743 Baroque Art                                   | 3 s.h. |
- ART 5940 Topics in Ancient Art                        | 3 s.h. |

#### Two of the following:

- ART 3745 19th Century European Art                     | 3 s.h. |
- ART 3746 19th Century American Art                     | 3 s.h. |
- ART 3747 African-American Art                          | 3 s.h. |
- ART 3785 History of Still Photography                  | 3 s.h. |
- ART 5881 20th Century Art to 1960                      | 3 s.h. |
- ART 5882 20th Century Art from 1960                   | 3 s.h. |

#### One of the following:

- ART 3780 African Art                                   | 3 s.h. |
- ART 3782 Pre-Columbian Art                            | 3 s.h. |
- ART 3781 Native North American Art                    | 3 s.h. |

### Art History Electives:

Three of any 3700 or higher Art History, 3 s.h. each

#### Capstone:

- ART 4889 Seminar in Art History                        | 3 s.h. |

### Studio Art Electives

- 6 s.h.

#### Required Support Courses

**One**

- Foreign Language                                     | 11 s.h. |

**Any**

- Religious Studies                                    | 3 s.h. |

**Any**

- English Literature, Music Literature, or Intro to Theater Arts | 3 s.h. |
Bachelor of Science in Education Visual Arts Pre-K–12*

Learning Outcomes

The student learning outcomes for visual arts Pre-K-12 are as follows:

- Students will demonstrate thorough knowledge of arts vocabulary.
- Students will demonstrate skills in communicating verbally and visually in their knowledge about the arts.
- Students will achieve the highest possible level of technical skills in the appropriate medium.
- Students will achieve the highest possible level of content expression in the appropriate medium.
- Students will demonstrate working knowledge of trends in general art history and theory with an emphasis in 20th century art.
- Students will demonstrate pedagogical skills and insights as they pertain to specific classroom needs.
- Students will demonstrate awareness and growth in confidence in teaching contemporary strategies while teaching the visual arts.
- Students will demonstrate skill in discriminating between creative (divergent) experiences and those that do not promote the artistic growth of the child (convergent).

**ART 1521  Foundation Drawing ...................... 3 s.h.**
**ART 1522  Intermed Drawing ........................... 3 s.h.**
**ART 1501  Fund. of 2-D Des .............................. 3 s.h.**
**ART 1502  Fund of 3-D Des ............................... 3 s.h.**
**ART 1503  Foundation Portfolio Review........... 0 s.h.**
**ART 3721  Expressive Drawing ........................ 3 s.h.**
**ART 2691  Intro to Digit Imaging ..................... 3 s.h.**
**ART 2625  Intro to Printmaking: Intaglio and Relief ...................... 3 s.h.**

**or**
**ART 2626  Intro to Printmaking: Lithography and Screenprinting ...3 s.h.**
**ART 2661  Intro to Graph Design ........................ 3 s.h.**
**ART 2631  Intro to Ceramics ............................. 3 s.h.**
**ART 2611  Intro to Sculpture ............................ 3 s.h.**
**ART 2671  Intro to B&W Photo ........................... 3 s.h.**
**ART 2650  Intro to Painting ........................... 3 s.h.**
**ART 2653  Watercolor ................................. 3 s.h.**
**ART 2615  Intro to Metals .............................. 3 s.h.**

**Art Education Requirements**

**ART 3737  Pre-K — 4, Vis Arts Ed.................. 3 s.h.**
**ART 4837  Prof Prac/Middle Sch .................... 3 s.h.**
**ART 4838  Prof Prac/Sec Sch ............................ 3 s.h.**
**ART 4839  Art Education Seminar ................... 1 s.h.**

**Education Requirements (Minor)**

**FOUN  1501  Intro to Educ............................ 3 s.h.**
**MULT  4807  Tchg Across Curric................... 2 s.h.**
**EDTC  3771  Technology for Tchg.................... 3 s.h.**
**TERG  3710  Reading Applications in Content Areas .................. 3 s.h.**
**PSYC  3709  Psych of Educ ......................... 3 s.h.**
**FOUN  3708  Educ & Society ......................... 3 s.h.**
**SPED  2630  Individuals with Exceptionalities in Society .......................... 3 s.h.**
**SED  4842  Student Tchg ............................ 10 s.h.**
**SED  4842A Stu Tchg Sem............................. 2 s.h.**

**Art History and Theory**

**ART  1541  Sur of Art Hist .......................... 3 s.h.**
**ART  1542  Sur of Art Hist .......................... 3 s.h.**
**ART  3788  Theory of Art ............................ 3 s.h.**
**ART  5882  20th C. from 1960 ....................... 3 s.h.**
**ART  37XX  Art history elective .................... 3 s.h.**

*Note: Students can be licensed to teach Pre-K–12 by completing the BFA in Studio Art and the Art Education and Education requirements as well.

DEPARTMENT OF COMMUNICATION

330-941-3631

Professors McCloud, O’Neill, Owens; Associate Professor Crawford, Earnheardt, Horvath (Chair), Mathews; Assistant Professors Curnalia, Tyus; Instructors Jackson, Mermer.

The Department of Communication offers coursework which satisfies major requirements for the degree of Bachelor of Arts.

Bachelor of Arts

The Bachelor of Arts degree for communication studies, and telecommunication studies requires 38-40 credit hours within the department. For further information about the department, including meeting with a faculty member who will discuss the requirements with you, contact the department office, located in Bliss Hall, Room 2000. These degrees may be earned in eight semesters if students average 16 hours per semester.

COMMUNICATION STUDIES

Courses in this major provide students with the necessary communication skills for today’s job market and future career demands. Communication Studies courses address the universal emphasis placed on effective communication skills by employers and recruiters. The core curriculum of 17 credit hours includes courses covering these communication skills.
The curriculum is then divided into three unique tracks to better prepare students for a particular career. Each of the tracks is described below. Students interested in:

- human resources or management careers in profit or nonprofit organizations should consider the **interpersonal / organizational track**.
- a career path in media management, public relations, advertising, or computer applications choose the **media track**.
- career goals of pharmaceutical, industrial, retail, or corporate sales, politics, or law school should choose the **persuasion track**.

The overriding goal of each track is to challenge each student to discover and study the many forms of communication.

**Learning Outcomes**

Regardless of track, students graduating with a Bachelor of Arts degree in communication studies will:

- be competent, ethical, interculturally aware communicators with practical experience in multiple context: group, interpersonal, public, organizational, and mediated communication.
- grasp communication theory and methods necessary to analyze, synthesize, and evaluate communication research, and to write in academic contexts.

**Admission Policy for Communication Studies**

Students seeking to major in communication studies must enter the program through the pre-communication studies major. Requirements to enter the pre-communication studies major vary. (1) Entering freshmen may simply declare a pre-communication studies major. (2) Transfer students from outside the university must have a GPA of 2.00 and be in “good academic standing.” (3) Transfer students from another within the university must have a minimum GPA of 2.50.

The pre-communication studies major is designed to prepare students to succeed in the communication studies major by providing the necessary academic foundation. It provides students with the opportunity to evaluate their commitment to studying communication and demonstrate their ability to do so.

When pre-communication studies majors successfully complete all three of the following requirements, they may transfer to the communications studies major.

1. Complete CMST 1530, CMST 1545, and ENGL 1550 with a “B” average (GPA in these courses of 3.00).
2. Successfully complete a total of 25 semester hours of university level course work. (The three courses listed in #1 above plus 16 hours outside the Department of Communication.)
3. Have an overall GPA of 2.50 at Youngstown State University.

Students are expected to meet with their communication studies faculty advisor prior to registration and are encouraged to meet with them whenever they have questions or concerns, and to monitor progress. The faculty advisor will certify the completion of the pre-communication studies requirements by signing the completion form. The student should then take the signed form to the Department of Communication, Bliss Hall 2000, and complete an Intra-University Transfer form to change her or his major to communications studies.

**Bachelor of Arts Degree in Communication Studies**

Students majoring in communication studies must successfully complete all core courses and one of the specified tracks for a total of 38 semester hours.

**CORE COURSES** *(take all 6 courses)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 1530</td>
<td>Communication Theory</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 2653</td>
<td>Group Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 2656</td>
<td>Interpersonal Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 2657</td>
<td>Organizational Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 3799</td>
<td>Designing Communication Research</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 4899</td>
<td>Senior Project</td>
<td>2 s.h.</td>
</tr>
</tbody>
</table>

**TOTAL** ................................................................. 17 s.h.

**INTERPERSONAL / ORGANIZATIONAL TRACK** *(take 5 of 6 courses plus 6 s.h. of upper division electives in CMST)*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 2610</td>
<td>Intercultural Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 3756</td>
<td>Interviewing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 3750</td>
<td>Gender Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 4850</td>
<td>Computer Mediated Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 4855</td>
<td>Interpersonal Relationships</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 4659</td>
<td>Organizational Cultures</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 5852</td>
<td>Conflict Management</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

**TOTAL** ................................................................. 21 s.h.

**MEDIA TRACK**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMST 3717</td>
<td>Media Campaigns</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 3756</td>
<td>Interviewing</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 3757</td>
<td>Media Relations Writing</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>
CMST 4850  Computer Mediated Communication .......................... 3 s.h.
CMST 4851  New Communication Media ................................ 3 s.h.
CMST 4859  Organizational Cultures .................................... 3 s.h.
CMST 4898  Media Analysis ................................................. 3 s.h.
TOTAL.................................................................. 21 s.h.

PERSUASION TRACK
CMST 2610  Intercultural Communication.......................... 3 s.h.
CMST 2645  Presentational Speaking ................................... 3 s.h.
CMST 3754  Argumentation .................................................. 3 s.h.
CMST 3756  Interviewing .................................................... 3 s.h.
CMST 3760  Persuasion ....................................................... 3 s.h.
CMST 4850  Computer Mediated Communication .............. 3 s.h.
CMST 4851  New Communication Media ............................ 3 s.h.
TOTAL.................................................................. 21 s.h.

Students must complete 18 s.h. of 3000- and 4000-level courses in the CMST major. Students must also complete all requirements for a Bachelor of Arts degree, including the completion of an approved academic minor.

Students seeking a degree in communication studies through an evening program should consult with the department chair to determine if it is possible.

Minor in Communication

Students interested in improving their communication skills beyond CMST 1545 should consider the communication studies minor. The core of the minor focuses on developing competent communication skills desired by today's employers and recruiters – interpersonal communication, working in groups, listening, and public speaking.

To complete the minor in communication studies, a student must successfully complete 18 s.h. The combination of hours is described below.

Both of these courses:
CMST 1530  Communication Theory ............................... 3 s.h.
CMST 3756  Interviewing .................................................... 3 s.h.
TOTAL.................................................................. 6 s.h.

Three of the following courses:
CMST 2645  Presentational Speaking ................................. 3 s.h.
CMST 2653  Group Communication ..................................... 3 s.h.
CMST 2656  Interpersonal Communication ......................... 3 s.h.
CMST 2657  Organizational Communication ....................... 3 s.h.

9 s.h.

One of these courses:
CMST 4855  Interpersonal Communication Relationships ........... 3 s.h.
CMST 4859  Organizational Cultures .................................... 3 s.h.
CMST 5852  Conflict Management ..................................... 3 s.h.

3 s.h.

GRAND TOTAL......................................................... 18 s.h.

TELECOMMUNICATION STUDIES

A major in the telecommunication studies curriculum provides in-depth knowledge and intellectual challenge in electronic communication. Students receive practical orientation to the skills and techniques of broadcasting. Further, they explore contemporary theories and problems which are central to telecommunications media, as well as examine new communication media.

From a liberal arts perspective, the telecommunication studies curriculum is designed to aid the student in pursuit of careers not only in broadcasting but also in recently expanding avenues of communication such as non-commercial broadcasting, corporate communications, industrial communications, cablecasting, and independent production. Internships are available in media organizations to students of superior academic achievement.

Learning Outcomes

The student learning outcomes for the major in telecommunication studies are as follows:

- The student will construct well reasoned arguments, avoiding fallacies.
- The student will demonstrate the ability to use technology to communicate messages.
- The student will design and create competent written, visual, and oral messages.
- The student will collaborate effectively as part of a group or team.
- The student will assess the values, attitudes, and goals of a potential audience and plan messages designed to appeal to these demographic and psychographic variables.
- The student will analyze and evaluate the prevailing theories of electronic media and appraise the relative value of each.

Admission Policy for Telecommunication Studies

When students declare an intent to major in telecommunication studies, they will be assigned to the “Pre-Telecommunication” (Pre-TCom) category. Upon completion of 30 semester hours with a GPA of 3.0 or higher (4.0 scale) for courses taken while in the Pre-TCom category, students will be reassigned to “Telecommunication Studies” (TCom). These 30 hours must include satisfactory completion of the course TCom 1500 (Orientation).

Students may transfer to the Pre-TCom, but not TCom, category from another program at YSU or from another institution. Upon completion of 30 semester hours with a GPA of 3.0 or higher for courses taken while in the Pre-TCom category, students will be reassigned to TCom.
Students who have interrupted their attendance at YSU for three consecutive semesters or more will be assigned to the Pre-TCom category upon their return. After completing 30 semester hours with a GPA of 3.0 or higher for courses taken while in the Pre-TCom category, they will be reassigned to TCom.

**Telecommunication Studies Major**

- TCOM 1500 Orientation to Telecommunication Studies
- ENGL 1550 English 1
- TCOM 1580 Introduction to Telecommunication Studies
- TCOM 1581 Telecommunication Technologies
- TCOM 2682 Scriptwriting for Electronic Media
- TCOM 2683 Media Operations and Performance
- TCOM 3780 Principles and Practices of Media Announcing
- TCOM 3781 Audio Production or TCOM 3782 Video Production 1
- TCOM 3783 Telecommunication Regulation
- TCOM 4887 Theories and Criticism of Telecommunication
- TCOM 4897 Seminar in Telecommunication
- TCOM 4899 Capstone

**Plus additional credits in Telecommunication Studies to total 40 hours.**

**THE DANA SCHOOL OF MUSIC**

Professors Ausmann, Crist (Director), Engelhardt-Gage, Gelfand, Krummel, Mosher, Ohlmanns, Perkins, Rollin, Slocum, J. Umble, Wilcox; Associate Professors, Lee, Morgan, Radnytsky, Schaft, K. Umble, Yun; Assistant Professors Boczkowska, Fowler, Kiser, Payne, Reale, Root, Wang; Instructor Goldberg, Wolfgang.

The Dana School of Music began in 1869 as Dana’s Musical Institute in Warren, Ohio. It was merged with Youngstown College in 1941.

The School complements the general objectives of the University by providing intensive professional training in music based on a thorough understanding of the fundamental skills and theory upon which all music rests and also providing an opportunity for the non-music major to develop a background of musical knowledge.

The requirements for entrance and for graduation are in accordance with the published regulations of the National Association of Schools of Music, of which the Dana School of Music is a member.

**Learning Outcomes**

The student learning outcomes for the major in music are as follows:

- Students will demonstrate proficiency on a voice or instrument.
- Students will demonstrate an understanding of music theory including, but not limited to: harmony, form, sight singing, and dictation.
- Students will demonstrate an understanding of the various historical periods including styles, composers, performance media, and performance practice.
- Students will demonstrate basic keyboard proficiency including scales, chords, transpositions, and modulations.

**Programs**

The curriculum may be divided into six components: music education, music theory, music history, performance, music recording, and liberal arts. Courses are available leading to the degree of Bachelor of Music with the major in piano, organ, voice, standard string or wind instruments, percussion, composition, and music education. In addition, it is possible to obtain the degree of Bachelor of Arts with majors in music history, music theory, or applied music and a Bachelor of Music degree with emphasis in Music Recording.

In cooperation with the College of Education, the music education program prepares students for licensure as music teachers in the public schools and also provides other courses necessary for general elementary teaching certificates. Music education students have a variety of opportunities for observation and practice teaching through excellent cooperation between the University and area schools.

**Facilities**

The Dana School is one of four departmental units in the College of Fine and Performing Arts. The School is housed in Bliss Hall, which provides practice rooms, faculty studios, classrooms, rehearsal rooms and a recital hall with a seating capacity of 237. Additional use is made of Stambaugh and Powers auditoriums.

**Equipment**

Equipment includes 92 Steinway pianos, 30 MIDI pianos, harpsichords by Dowd, two Schlicker pipe organs, three Flentrop pipe organs, consort of Renaissance wind and brass instruments, and a comprehensive collection of standard band and orchestral instruments.
Many University-owned instruments are available for use by students enrolled in related courses. There is no charge for use of these instruments, although failure to comply with check-in deadlines will result in a $5.00-a-day fine or replacement for each instrument.

**MIDI Lab**

Bliss Hall offers students the opportunity to work with state-of-the-art music computer software and hardware, including advanced music notation, music sequencing (composition/arranging) and automatic accompaniment applications. The Center features Macintosh workstations, each fully MIDI-equipped.

**Electronic Music Laboratory**

The Dana Electronic Music Laboratory is equipped with sophisticated hardware and software offering the advanced student of music technology the opportunity to experience such applications as hard-disk recording, sampling, digital editing, and advanced sequencing.

**Music Recording Studio**

The Dana Recording Studio is equipped with state-of-the-art analog to digital equipment. The 32-track studio features a G5 Mac computer running Digital Performer and Logic.

**Libraries**

The school’s extensive libraries of band, orchestral, and choral music represent musical periods from the Renaissance to the present. Maag Library contains books, printed music, records, CDs, videos, and CD ROMs.

**Scholarships and Loans**

The Dana School of Music offers a wide range of scholarships, which are awarded, after competitive auditions, on the basis of talent and academic achievement. Applications should be submitted to the Director of the Dana School of Music. For other scholarships, see Loans and Scholarships in the Scholarships and Financial Aid section.

**Musical Activities**

The Dana School of Music supplements the concerts offered by community ensembles with the Dana Concert Series. This series brings to the University and to the public artistic solo and ensemble programs featuring faculty members and guest artists, composers, and musicologists.

The School has numerous performing ensembles: the Dana Chorale, the University Chorus, the Wind Ensemble, the Concert Band, the Marching Band, Dana Symphony Orchestra, Opera Workshop; the Jazz Ensemble; Woodwind, Brass, String and Percussion Ensembles; the Chamber Orchestra; and the Early Music and Composer’s Ensembles.

**Student Activities**

Music students may participate in all Youngstown State University student activities. Of special interest to music students are the student chapters of the Ohio Collegiate Music Educators Association, Early Music Society, New Music Society, Dana Opera Society, the Jazz Society, Phi Mu Alpha and Sigma Alpha Iota.

**Fees**

See the Fees and Expenses section of this Bulletin.

**Application and Admission Examinations**

An applicant for admission to the Dana School of Music must satisfy the general requirements for admission to the University (see the Admission section).

Applicants are required to pass entrance auditions in their performance area and to take placement examinations in music theory and piano. These auditions and examinations are on announced dates preceding the commencement of classes in the fall.

**Admission to Courses for the Degree of Bachelor of Music**

The applicant’s high school courses should include the preparatory courses specified under High School Preparation on p. 12 of this Bulletin.

**Musical Proficiency**

It is expected that the applicant will have developed a certain proficiency in one or more branches of applied music before entering the University, as certain standards in technique and repertory must be met. Qualifications are determined by the placement tests mentioned above; the student not qualifying for the first regular course in a major branch of applied music must take preparatory work until ready to undertake the regular courses.

The Dana School of Music theory placement examination is used to determine theory proficiency. Those scoring less than the 80th percentile will be assigned to Music 1520, while those scoring above the 80th percentile will be assigned to Music 1531.

Prospective composition majors must present evidence of ability to handle the materials of music by placing at or above the 80th percentile of the Dana School of Music theory entrance examination. Proficiency on a musical instrument sufficient for admission to the freshman level of applied music must be demonstrated before the appropriate applied faculty in an audition.

**Admission from Other Institutions**

The general policy is stated in the Academic Policies and Procedures section. Advanced standing in musical performance and in music theory is granted tentatively and must be validated by examinations.
Requirements for the Degree
Bachelor of Music

It is the student’s responsibility to see that all the graduation requirements for the degree sought are satisfied. These degrees may be earned in eight semesters if students average 16-18 hours per semester. For the Bachelor of Music degree, these consist of:

1. Pre-college or preparatory study, of two kinds:
   A. Academic. The specific courses are listed on p. 12 of this Bulletin. These courses are normally taken in high school. Deficiencies must be overcome prior to completing 60 semester hours at YSU.
   B. Musical. An entrant lacking suitable proficiency must develop it before undertaking the required college-level music courses.

2. University requirements. Non-music courses and other requirements to be completed in the University are listed in the Degree Requirements chart at the beginning of the College of Fine and Performing Arts section.

3. Degree requirements. Curricula leading to music degrees require from 126 to 137 semester hours of credit and are designed to be completed in four academic years.

Double Major: Music Performance and Music Education

Students who wish to complete a major (Bachelor of Music degree) in an instrument or in voice, theory, or composition, and also a major in music education, should consult the director of the Dana School of Music.

While the Dana School of Music offers a variety of degrees and majors in music, it is our desire that all music students have significant musical experiences as a foundation for more specialized training.

CURRICULA

For All Music Majors

Acceptance into a performance area is contingent upon an audition. The student not qualifying for Music 1501 may take the relevant course 1500 until the deficiency is corrected.

Advanced standing in performance may be granted tentatively after an examination given by members of the faculty. The final classification is made at the end of the first semester of resident study.

Enrollments in applied music are contingent upon the approval of the director of the Dana School of Music, with priority given to full-time music majors and music minors participating in major ensembles.

Teacher Assignment. Assignment of students to teachers is made by the area coordinator. Requests for change of teacher should be addressed to the coordinator in writing. A student’s choice of teacher will be respected as far as possible, but final assignment rests with the director of the School of Music.

Lessons. Students registered for 4 s.h. courses receive individual instruction and one 50-minute seminar weekly. They are required to practice three hours daily. Students registered for 2 and 3 s.h. courses receive individual instruction and one 50-minute seminar weekly; they are required to practice two hours daily. Students registered for A and B applied courses receive individual instruction for 30 minutes each week and are required to practice one hour daily.

No credit will be given in a performance course if the student misses more than three lessons in any semester. Lessons missed due to legal holidays or school closings will not be made up. In case of prolonged illness the lessons may be made up at the discretion of the teacher.

Recitals. Recognizing that performing before an audience plays a vital role in musical development, the Dana School offers its students many opportunities to appear in public as a way to foster that development. Attendance at 30 recitals is mandatory in the first two years.

Convocation. The assistant director of the School arranges weekly programs of lectures, student and faculty performances. Attendance at 36 convocations is mandatory in the first two years.

Young Artist Competition. An annual concert by the Dana Symphony Orchestra features student soloists chosen by competition.

Degree and Non-degree Recitals. Each candidate for the degree Bachelor of Music must present a senior recital in partial fulfillment of the graduation requirements. Performance majors must present a half-hour recital their junior year and a one-hour recital their senior year. Composition majors must present 75 minutes of music, and music education majors a half-hour recital of music. Outstanding students may present non-degree recitals, subject to certain conditions (for particulars, consult the coordinator of the Dana Concert Series). Planning for all these recitals should include selection of varied and balanced repertory, preparation of properly detailed copy for the printed program and program notes, and consideration of performance aspects such as attire, stage deportment, and ways to attract an audience. A recital hearing will be held no later than 21 days prior to the projected recital date. During that time a student who plans to present a degree recital must be prepared to perform the recital program for faculty approval.

All students registered for major-level applied lessons must attend weekly seminars as posted in the schedule of classes.

Examinations. During examination week of each term, performance faculty members convene to determine whether or not students may proceed to the next higher proficiency level (performance course number). Frequency of required examinations differs
among the various performance areas (for specifics consult the syllabus of the performance area concerned). Transfer students are examined at the end of their first or second term of study, as established by the individual performance area. Students presenting an approved degree recital may be granted a waiver of examination for the term of the recital. Students may be retained in the same proficiency level with a grade of C or lower or with a grade of PR. Students who fail to meet the standards of the examining faculty may be required to reduce the number of credits for which they register in subsequent terms; or they may be required to withdraw completely from the course sequence.

Each applied area (keyboard, brass, etc.) may vary the above to meet certain needs. Consult with area coordinator for details.

Jazz or Applied/BA Major

The following courses differ only in degree from those listed under Performance Major according to the credit hours earned. (See courses Applied Studio Instruction for specific requirements.) A high standard of proficiency is expected. For the jazz major, junior and senior recitals are required.

1501, 1502. See Performance Major 2+2 s.h.
2603, 2604. See Performance Major 3+3 s.h.
3703, 3704. See Major/Performance 3+3 s.h.
4803, 4804. See Major/Performance 3+3 s.h.

Music Education Major

The following courses differ only in degree from those listed under Performance Major according to the credit hours earned. (See courses Applied Studio Instruction for specific requirements.) Concentration in the development of basic technics relative to teaching in the elementary and secondary school systems is an integral component of study. A high standard of proficiency is expected. Senior recital required. This degree may be earned in eight semesters if students average 17 hours per semester.

1501, 1502. See Performance Major 2+2 s.h.
2601, 2602. See Performance Major 2+2 s.h.
3701, 3702. See Performance Major 2+2 s.h.
4801. See Performance Major 2 s.h.

Music Minor

The following courses are for the student who has a requirement of study on a secondary instrument or voice or who does not meet the standards required in the major courses. No seminar is required. Initial enrollment is contingent upon successful completion of an audition.

1500 A,B 1+1 s.h.
2600 A,B 1+1 s.h.
3700 A,B 1+1 s.h.
5800 A,B 1+1 s.h.

ENSEMBLES

There are two types of ensembles in the Dana School of Music—large ensembles and chamber ensembles. Large ensembles rehearse a total of three or four hours per week, and chamber ensembles for two hours per week.

All music majors (except guitar, organ, and piano performance majors) are required to participate in a large ensemble each semester in which they are enrolled in applied music.

Large Ensembles

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0002 Dana Chorale</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0003 Dana Madrigal</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0004 University Chorus</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0005 Concert Band</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0006 Marching Band (fall only)</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0007 Wind Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0008 Symphony Orchestra</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0023 Jazz Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0040 Symphonic Band (spring only)</td>
<td>0-1 s.h.</td>
</tr>
</tbody>
</table>

Chamber Ensembles

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0009 Percussion Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0010 String Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0012 Opera Workshop</td>
<td>0-3 s.h.</td>
</tr>
<tr>
<td>0013 Studio Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0014 Women’s Chorus</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0015 Early Music Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0016 Flute Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0017 Brass Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0018 Horn Choir</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0019 Trombone Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0020 Tuba Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0021 Brass Chamber Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0022 Trumpet Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0024 Composer’s Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0026 Chamber Orchestra</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0028 Chamber Winds</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0029 Guitar Ensemble</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0030 Jazz Combo</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0035 Saxophone Quartet</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0036 Clarinet Choir</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0041 Basketball Pep Band (spring only)</td>
<td>0-1 s.h.</td>
</tr>
<tr>
<td>0051 Piano Chamber Ensemble</td>
<td>0-1 s.h.</td>
</tr>
</tbody>
</table>

Ensemble courses are open to all students in the University who are qualified for them and any ensemble course may be repeated any number of semesters.

Instrumental (music education) majors are required to spend one (1) semester in a vocal ensemble.

Requirements in addition to the above but unique to each ensemble:

- Opera workshop 0012 culminates in the production of one or more operas. Credit is given in accordance with the amount of work chosen by the student, ranging from one to three semester hours.
- Woodwind and brass ensembles may include quartets, quintets, and various other combinations of instruments. 1 s.h. each.
CURRICULUM FOR PERFORMANCE DEGREES

I. General University Requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing 1 and 2</td>
<td>6</td>
</tr>
<tr>
<td>Communications</td>
<td>3</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
<tr>
<td>Domains:</td>
<td></td>
</tr>
<tr>
<td>Personal and Social Responsibility</td>
<td>6</td>
</tr>
<tr>
<td>Artistic and Literary Perspectives</td>
<td>9</td>
</tr>
<tr>
<td>Natural Science</td>
<td>7</td>
</tr>
<tr>
<td>Societies and Institutions</td>
<td>9</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>(MUHL 3771, 3772, 3773)</td>
<td></td>
</tr>
</tbody>
</table>

II. Core Music Requirements

| Music Theory 1531-3750                | 19       |
| Music History 3771-3774              | 12       |
| Junior/Senior Recitals               | N/C      |

III. Requirements unique to area of emphasis

1. Instrumental

Applied Major 1501-4806                   | 28       |
Keyboard Musicianship 1581-2682           | 4        |
Large Ensemble                           |          |
(guitar majors/guitar ensemble)           | 8        |
Chamber Ensemble                         | 2        |
Conducting 3715                           | 3        |
Theory/History Electives                 |          |
(must represent both areas)              | 9        |
Music Electives                          | 11       |

2. Jazz

Applied Major 1501-4804                   | 22       |
Keyboard Musicianship 1581-1582           | 2        |
Jazz Keyboard 3781-3782                   | 2        |
Jazz Ensemble                            | 8        |
Jazz Combo                              | 2        |
Jazz Fundamentals 1525                   | 2        |
Jazz History 2616                         | 3        |
Jazz Improv 3712-3713                    | 6        |
Jazz Improv 2667-4868                    | 12       |
Conducting 3715                           | 3        |
Theory/History Elective                  |          |

3. Organ

Applied Major 1501-4806                   | 28       |
Accompanying 2691-2694                    | 4        |
Major Ensemble                           | 4        |
Applied Piano 1500A, B; 2600A, B          | 4        |
Conducting 3715                           | 3        |
Pedagogy 5858                            | 3        |
Voice Class/Applied Voice                | 2        |
Theory/History Electives                 |          |
(must represent both areas)              | 9        |
Music Electives                          | 8        |

4. Piano

Applied Major 1501-4806                   | 28       |
Accompanying 2691-2694                    | 4        |
Large Ensemble                           | 4        |
Piano Chamber Ensemble                    | 4        |
Conducting 3715                           | 3        |
Pedagogy 5858                            | 3        |
Voice Class/Applied Voice                | 2        |
Theory/History Electives                 |          |
(must represent both areas)              | 9        |
Music Electives                          | 8        |

5. Voice

Applied Major 1501-4806                   | 28       |
Keyboard Musicianship 1581-2682           | 4        |
Large Ensemble                           | 8        |
Conducting 3715                           | 3        |
Vocal Pedagogy 5880                      | 1        |
Diction 1556, 1557, 1558                 | 3        |
Theory/History Electives                 |          |
(must represent both areas)              | 6        |
Italian/French/German                    | 12       |

CURRICULUM FOR BACHELOR OF MUSIC IN COMPOSITION

I. General University requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing 1 and 2</td>
<td>6</td>
</tr>
<tr>
<td>Communications</td>
<td>3</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
<tr>
<td>Domains:</td>
<td></td>
</tr>
<tr>
<td>Personal and Social Responsibility</td>
<td>6</td>
</tr>
<tr>
<td>Artistic and Literary Perspectives</td>
<td>9</td>
</tr>
<tr>
<td>(MUHL 3771, 3772, 3773)</td>
<td></td>
</tr>
<tr>
<td>Natural Science</td>
<td>7</td>
</tr>
<tr>
<td>Societies and Institutions</td>
<td>9</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>(MUHL 3774)</td>
<td></td>
</tr>
</tbody>
</table>

II. Core music requirements

| Music Theory 1531-3750                | 19       |
| Music History 3771-3774              | 12       |
| Composition 1501-4804                | 20       |
| Large Ensemble                       | 7        |
| Music Theory Electives               | 12       |
| Music History Elective               | 3        |
| Music Electives                      | 4        |
| Recitals                             | N/C      |
| Language                             | 8        |
| Applied Lessons                      | 8        |
| Keyboard Musicianship 1581-2682      | 4        |

CURRICULUM FOR MUSIC EDUCATION DEGREES

I. General University Requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing 1 and 2</td>
<td>6</td>
</tr>
<tr>
<td>Communications</td>
<td>3</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
</tbody>
</table>
### Domains:
- Personal and Social Responsibility: 6
- Artistic and Literary Perspectives: 9
- Natural Science: 7
- Societies and Institutions: 9
- Elective: 3

### II. Core Music Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Major 1501-4801</td>
<td>14</td>
</tr>
<tr>
<td>Music Theory 1531-3750</td>
<td>19</td>
</tr>
<tr>
<td>Music History 3771-3774</td>
<td>12</td>
</tr>
<tr>
<td>Conducting 3715</td>
<td>3</td>
</tr>
<tr>
<td>Music Education 2611, 4823, 4824, 4825 and elective</td>
<td>N/C</td>
</tr>
</tbody>
</table>

### III. Requirements unique to each area of emphasis

#### 1. Instrumental

- Large Ensemble: 7
- Keyboard Musicanship 1581-2682: 4
- Methods/Applied Classes: 5
- Music Education 4826: 2

#### 2. Keyboard

- Large Ensemble: 4
- Accompanying 2691-2694: 4
- Voice Class/Applied Voice: 2
- Pedagogy 5858: 3
- Methods/Applied Classes: 3
- Music Education 4826 or 4827: 2

#### 3. Voice

- Large Ensemble: 7
- Keyboard Musicanship 1581-2682: 4
- Pedagogy 5880: 1
- Diction: 1
- Methods/Applied Classes: 3
- Music Education 4827: 2

### IV. College of Education Licensure Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 3709</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 1501</td>
<td>3</td>
</tr>
<tr>
<td>FOUN 3708</td>
<td>3</td>
</tr>
<tr>
<td>SPED 2630</td>
<td>3</td>
</tr>
<tr>
<td>TERC 3710</td>
<td>3</td>
</tr>
<tr>
<td>MULT 4807</td>
<td>2</td>
</tr>
<tr>
<td>SED 4844 and seminar</td>
<td>12</td>
</tr>
</tbody>
</table>

Students are required to complete the Senior Recital before student teaching.

### CURRICULUM FOR BACHELOR OF ARTS DEGREE

#### I. General University Requirements

<table>
<thead>
<tr>
<th>Courses</th>
<th>Cr. Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing 1 and 2</td>
<td>6</td>
</tr>
<tr>
<td>Communications</td>
<td>3</td>
</tr>
<tr>
<td>Math</td>
<td>3</td>
</tr>
</tbody>
</table>
I. Music Theory (19 s.h.)
MUTC 1531/1531L .............................................. 4
MUTC 1532/1532L .............................................. 4
MUTC 2631/2631L .............................................. 4
MUTC 2632/2632L .............................................. 4
MUTC 3750 ........................................................... 3

II. Music History and Literature (15 s.h.)
MUHL 2616 ........................................................... 3
MUHL 2618 ........................................................... 3
MUHL 3771 or 3772 .............................................. 3
MUHL 3773 ........................................................... 3
MUHL 3774 ........................................................... 3

MUSIC PERFORMANCE AND MUSIC ELECTIVES
I. Applied Major (16 s.h.)
MUS 1501 ............................................................ 2
MUS 1502 ............................................................ 2
MUS 2601 ............................................................ 2
MUS 2602 ............................................................ 2
MUS 3701 ............................................................ 2
MUS 3702 ............................................................ 2
MUS 4801 ............................................................ 2

II. Keyboard Musicianship (4 s.h.)
MUAC 1581 .......................................................... 1
MUAC 1582 .......................................................... 1
MUAC 2681 .......................................................... 1
MUAC 2682 .......................................................... 1

III. Ensembles (8 s.h.)
MUEN ............................................................... 1
MUEN ............................................................... 1
MUEN ............................................................... 1
MUEN ............................................................... 1
MUEN ............................................................... 1
MUEN ............................................................... 1

IV. Music Theory/Music History Electives (6 s.h.)
MUTC 5834 .......................................................... 2
MUHL 58XX .......................................................... 2

MUSIC RECORDING AND OTHER REQUIRED COURSES
I. Music Recording (22 s.h.)
MURC 1561 .......................................................... 4
MURC 3762 .......................................................... 2
MURC 3763 .......................................................... 2
MURC 3764 .......................................................... 2
MURC 3765 .......................................................... 2
MURC 4866 .......................................................... 6
MURC 4867 .......................................................... 4

II. Conducting (3 s.h.)
MUCO 3715 .......................................................... 3

III. Business Management (2 s.h.)
MGT 58XX .......................................................... 2

DEPARTMENT OF THEATER AND DANCE
330-941-3810

Professors Castronovo (Chair), Henneman, Murphy; Associate Professors Cobb, Shanabarger; Instructor Wolfgang.

The Department of Theater and Dance offers coursework leading to the Bachelor of Arts degree in theater studies, or the Bachelor of Fine Arts degree in theater or musical theater. Minors in dance and theater are also available.

All theater programs are fully accredited by the National Association of Schools of Theatre

Learning Outcomes
The student learning outcomes for the major in theater are as follows:

- **Public Performances.** Students effectively participate in the creation and presentation of public performances in the theater.
- **Visual and Aural Perceptions.** Students develop visual and aural perceptions related to theater performances and students develop a structured approach to the uses of language in playwriting and the resulting script.
- **Basic Production Process.** Students demonstrate competence in basic production processes such as acting, directing, stage, costume and lighting design, and basic technical operations related to productions.
- **Theater Techniques.** Students demonstrate competence in a number of theater techniques.
- **Understanding of History and Cultural Dimensions.** Students demonstrate understanding and familiarity with the historical and cultural dimensions of theater, including the works of leading playwrights, actors, directors, and designers, both past and present.
- **Evaluating Contemporary Thinking About Theater.** Students demonstrate competence in understanding and evaluating contemporary thinking about theater.
- **Making Informed Assessments of Quality.** Students demonstrate skill in making informed assessments of the quality of works of theater.

B. A. in THEATER STUDIES

The Bachelor of Arts in theater studies combines an array of liberal arts coursework with extensive practical training in the techniques of theater production.
Students work closely with their instructors in the classroom as well as in laboratory settings. As with any liberal arts degree, the B.A. is primarily designed to provide students with a broad general education, but its location in a department of theater also provides special opportunities to develop production/performance skills, as well. This degree program is fully accredited by NAST, The National Association of Schools of Theatre.

Major Requirements for a B.A. in Theater Studies:
- THTR 1500 Auditions and Portfolios...............1
- THTR 1559 Play Production..........................3
- THTR 1561 Stagecraft..................................3
- THTR 2668 Acting I: Fundamentals..................3
- THTR 2600 Theater Participation I
  (taken three times)..............................1+1+1
- THTR 2690 Oral Interpretation......................3
- THTR 3700 Theater Participation 2
  (taken four times).................................1+1+1+1
- THTR 3762 Directing I................................3
- THTR 3768 Script Analysis............................3
- THTR 4891 Theater History to 1700....................3
- THTR 4860 Theater History after 1700.................3
- THTR 4899 Topics in Theater..........................3
- THTR 4898 Senior Project............................3

One of the following:
- THTR 3763 Scene Design..............................3
- THTR 3765 Lighting Design............................3

Plus 9 credits of theater or dance electives, a minor, and a foreign language.

Bachelor of Fine Arts in Theater

The Bachelor of Fine Arts in Theater is designed to provide intensive training, preparing students for careers in the professional or academic theater. It is fully accredited by NAST, the National Association of Schools of Theatre, and admission to this program is available by audition/interview only. Students admitted to this B.F.A. program will combine a basic foundation of general studies with an extensive selection of performance-oriented coursework (acting, directing, design and dance) and participation in the co-curricular production activities of the Department. This degree may be earned in eight semesters if students average 16 hours per semester. Retention in the program is contingent upon an annual progress review presented by each student.

Requirements for a B.F.A. in Theater:
- THTR 1500 Auditions and Portfolios...............1
- THTR 1559 Play Production..........................3
- THTR 1561 Stagecraft..................................3
- THTR 2668 Acting I: Fundamentals..................3
- THTR 2600 Theater Participation I
  (taken three times)..............................1+1+1
- THTR 3761 Makeup....................................3
- THTR 3762 Directing I................................3
- THTR 2667 Voice for the Actor......................3
- THTR 3700 Theater Participation 2
  (taken four times).................................1+1+1+1
- THTR 3766 Stage Combat..............................3
- THTR 2690 Oral Interpretation......................3
- THTR 3700 Theater Participation 2
  (taken four times).................................1+1+1+1
- THTR 3761 Makeup....................................3
- THTR 3762 Directing I................................3
- THTR 2667 Voice for the Actor......................3
- THTR 3766 Stage Combat..............................3
- THTR 3791 Rehearsal & Performance..................3

Bachelor of Fine Arts in Musical Theater

The Bachelor of Fine Arts in Musical Theater is designed to provide intensive training, preparing students for professional careers as actor/singers. It is fully accredited by NAST, the National Association of Schools of Theatre, and admission to this program is available by audition/interview only. This degree may be completed in eight semesters if students average 16 hours per semester. Retention in the program is contingent upon an annual progress review presented by each student.

Requirements for a B.F.A. in Musical Theater:
- THTR 1500 Auditions and Portfolios...............1
- THTR 1512 Survey of Musical Theater...............3
- THTR 1559 Play Production..........................3
- THTR 1561 Stagecraft..................................3
- THTR 2668 Acting I: Fundamentals..................3
- THTR 2600 Theater Participation I
  (taken three times)..............................1+1+1
- THTR 2664 Musical Theater Lab (taken twice)......1+1
- THTR 3700 Theater Participation 2
  (taken four times).................................1+1+1+1
- THTR 3761 Makeup....................................3
- THTR 3762 Directing I................................3
- THTR 2667 Voice for the Actor......................3
- THTR 3766 Stage Combat..............................3
- THTR 3791 Rehearsal & Performance..................3

Two of the following three:
- THTR 3763 Scene Design..............................3
- THTR 3765 Stage Lighting................................3
- THTR 3769 Costume Design............................3

Plus either
- THTR 3791 Rehearsal & Performance (taken twice)
- THTR 3792 Projects in Production (taken twice)....6

Plus
- THTR 4891 Theater History to 1700.....................3
- THTR 4860 Theater History after 1700...............3
- THTR 3764 History of Stage Costume..................3
- THTR 3768 Script Analysis............................3
- THTR 4898 Senior Project............................3

Plus 12 credits taken from:
- THTR 1563 Costume Construction.....................3
- THTR 2670 Oral Interpretation......................3
- THTR 4863 Acting 3: Styles............................3
- THTR 4870 Acting 4: Acting on Camera................3
- THTR 4899 Topics in Theater..........................3
- THTR 5864 Directing 2................................3

Plus 3 credits in movement taken from:
- DNCE 1570 Tap and Jazz..............................1
- DNCE 1572 Ballet 1....................................1
- DNCE 1540 Modern Dance 1...........................1
- DNCE 1571 Tap and Jazz 2..............................2
- DNCE 1541 Modern Dance 2............................2
- HPES 1514 Fencing 1................................1
- HPES 1558 Physical Fitness...........................1
- HPES 1557 Weight Training............................1

Plus 12 credits of theater or dance electives emphasizing either performance or design/technology
THTR 4891  Theater History to 1700 ..................3
THTR 4860  Theater History after 1700 ..........3
THTR 3764  History of Stage Costume ..........3
THTR 4863  Acting 3: Styles ..................3
Senior Project ...........................................3

*Plus 6 credits taken from*

THTR 1563  Costume Construction ...........3
THTR 3768  Script Analysis ..................3
THTR 4870  Acting 4: Acting on Camera ......3
THTR 4893  Independent Study .............1-3
THTR 2670  Oral Interpretation .............3
THTR 4899  Topics in Theater .............3
THTR 5864  Directing 2 ........................3

*Plus 16 credits of Applied Voice
Plus 2 credits of Applied Keyboard
Plus 4 credits of Music Theory

*Plus 5 credits in movement taken from

DNCE1572 Ballet 1 .....................................1
DNCE1540 Modern Dance 1 ......................1
DNCE1541 Modern Dance 2 ......................2
DNCE1571 Tap and Jazz 2 ......................2
DNCE3767 Choreography for Musical Theater...2
HPES 1514 Fencing I ..............................1
HPES 1515 Fencing II ................................1
HPES 1557 Weight Training ......................1

Curriculum guides detailing the B.F.A. programs are available in the department office.

**Minors:**

Minors are available in Theater and Dance, and consist of the following course sequence:

**MINOR IN THEATER**

To complete a minor in Theater, a student must take a minimum of 18 hours as described below:

**All of these (9 hrs.):**

THTR 1559 – Play Production (3)
THTR 1561 – Stagecraft (3)
THTR 2668 – Acting 1: Fundamentals (3) (Certified GENED Oral Intensive)

**Two Theater Production Courses (6 hrs.), taken from:**

THTR 3761 – Makeup (3)
Prereq: THTR 1559 or Permission of Instructor
THTR 3762 – Directing 1 (3)
Prereq: THTR 1559 or Permission of Instructor
THTR 3769 – Costume Design (3)
Prereq: THTR 1559 or Permission of Instructor
THTR 3763 – Scene Design (3)
Prereq: THTR 1559 and 1561, or Permission of Instructor
THTR 3765 – Lighting Design (3)
Prereq: THTR 1559 and 1561, or Permission of Instructor

*One Theater Support Course (3 hrs.) taken from:*

Theater 4891 – Theater History to 1700 (3) (Certified GENED Substitute, A&E)
Prereq: 9 hrs. of THTR course work and Junior Standing

Theater 4860 -Theater History from 1700 (3) (Certified GENED Substitute, A&L)
Prereq: 9 hrs. of THTR course work and Junior Standing

**MINOR IN DANCE**

To complete a minor in dance a student must complete a minimum of 23 hours of coursework as described below:

**Required Courses**

One-third of the dance minor (7 credit hours) must be 3000 level or above.

DNCE1540 Modern Dance 1*................................1
DNCE1541 Modern Dance 2 ................................2
DNCE1542 Dance Composition ........................1
DNCE1550 Wellness for Actors and Dancers ...1
DNCE1570 Tap and Jazz 1* ..............................1
DNCE1571 Tap and Jazz 2 ................................2
DNCE1572 Ballet 1* ........................................1
DNCE1573 Ballet 2 .........................................2
DNCE2698 Survey of Dance ............................3
THTR 3791 Rehearsal and Performance ..........3
DNCE4892 Pedagogy of Dance Technique ........3

or

DNCE3767 Choreography for Musical Theater...2

*Plus a minimum of 3 or 4 additional credit hours selected from the following, depending on whether one takes DNCE 4892 or DNCE 3767:

DNCE2606 Creative Dance for the Child ........1
DNCE2680 Tap Dance 3 ................................1
DNCE3751 Modern Dance 3 .........................2
DNCE3770 Jazz Dance 3 ................................2
DNCE3781 Ballet 3 .........................................2
DNCE4871 Jazz 4 ...........................................2
DNCE4881 Ballet 4 ....................................2

*All dance minors are required to demonstrate proficiency at level 2 in modern, tap and jazz, and ballet technique. Level-one technique classes may be waived for students with more advanced technical proficiency.

**Professional Societies**

**Alpha Psi Omega**

The Department of Theater and Dance is a member of Alpha Psi Omega, the National Honorary Dramatics Fraternity. Students may become members of the local chapter by (1) achieving the prescribed cumulative grade average, and (2) earning a prescribed number of points through participation in dramatic activities. Membership requires sophomore standing.
In support of the University mission to provide a wide range of educational opportunities in higher education, The Dr. Dominic A. and Helen M. Bitonte College of Health and Human Services assumes a broad focus. That focus entails preparing students for competent practice in positions in both the health and human service professions. The College is committed to excellence in education through the quality programs it provides. To assure continuity and opportunity for health and human service majors, the College has encouraged the development of two-plus-two curricula in several majors that allow students to efficiently progress from associate to baccalaureate degree program completion. Master’s degree programs further expand and advance the competencies of graduates in the delivery and administration of health care and human services.
Accreditation

— The emergency medical technology (EMT), medical assisting technology, and respiratory care programs are accredited by the Commission on Accreditation of Allied Health Education Programs. The EMT program is also accredited by the Ohio Department of Public Safety-Division of EMS.

— The dental hygiene program is accredited by the American Dental Association Commission on Dental Accreditation.

— The clinical laboratory technology, clinical laboratory science, and histotechnician programs are accredited by the National Accrediting Agency for Clinical Laboratory Sciences.

— The Bachelor of Science in respiratory care and polysomnography certificate programs are accredited by the Commission on Accreditation for Respiratory Care.

— The dietetic technology program, the coordinated program in dietetics, and the didactic program in dietetics are approved by the Commission on Accreditation for Dietetics Education.

— The Department of Human Ecology is accredited by the American Association of Family and Consumer Sciences.

— The health education, physical education, and family and consumer sciences education programs are accredited by the National Council for Accreditation of Teachers Education.

— The Bachelor of Science in Nursing program is accredited by the National League for Nursing Accrediting Commission and approved by the Ohio Board of Nursing Education and Nurse Registration.

— The nursing home administration program is approved by the State of Ohio Board of Examiners of Nursing Home Administrators.

— The physical therapy program is accredited by the Commission on Accreditation in Physical Therapy Education.

— The social work program is accredited by the Council on Social Work Education.

Organization/Majors

The Bitonte College of Health and Human Services consists of eight departments: Criminal Justice and Forensic Sciences, Health Professions, Human Ecology, Human Performance and Exercise Science, Military Science, Nursing, Physical Therapy, and Social Work. In cooperation with the College of Education, Community and School Health provides a health education major, Human Performance and Exercise Science provides a physical education major, and Human Ecology provides a family and consumer sciences major. The College offers Air Force Reserve Officer Training Corps (AFROTC) through an agreement with Kent State University. Graduate courses are offered by the Departments of Human Ecology and Social Work. The Department of Criminal Justice and Forensics offers a master’s degree, the Department of Nursing offers a master’s degree in nursing, and the Department of Health Professions offers a Master in Health and Human Services degree. The Northeastern Ohio Universities Master of Public Health program operates through a partnership of YSU, The University of Akron, Cleveland State University, Kent State University, and Northeastern Ohio Universities College of Medicine (NEOUCOM).

The eight departments are listed below with their associate (A) and baccalaureate (B) offerings and (M) master’s offerings. Students whose needs are not completely met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (see the Academic Policies and Procedures section).

Department of Criminal Justice and Forensic Sciences

- Basic Peace Officer Training Academy (Certificate)
- Criminal Justice and Forensic Sciences (AAS, BSAS, MS)
  - Forensic Science (BSAS)
  - Master of Public Administration (MPA)

Department of Health Professions

- Allied Health (BSAS)
- Clinical Laboratory Technology (AAS)
- Clinical Laboratory Science (BSAS)
- Dental Hygiene (AAS)
- Emergency Medical Technician—Basic (Certificate)
- Emergency Medical Technician—Paramedic (Certificate)
- Emergency Medical Technology (AAS)
- Health and Human Services (MHHS)
- Healthcare Management (Graduate Certificate)
- Histotechnician (AAS)
- Medical Assisting Technology (AAS)
- Medical Coding (Certificate)
- Polysomnography (Certificate)
- Public Health (MPH)
- Respiratory Care (BSRC)
- School Health Education (BSEd)

Department of Human Ecology

- Dietetic Technician (A)
- Family and Consumer Sciences Education (BSEd)
- Family and Consumer Studies (BSAS)
- Food and Nutrition (BSAS)
- Hospitality Management Technology (AAS, BSAS)
- Merchandising: Fashion and Interiors (BSAS)
- Pre-Kindergarten Associate (AAS)

Department of Human Performance and Exercise Science

- Exercise Science (BSAS)
- Physical Education (BSEd)
- Physical Education - non-teaching (BA)
Department of Military Science
Military Science (minor only)
††† Army ROTC program

Department of Nursing
† Nursing (BSN, MSN)
† School Nurse Licensure

Department of Physical Therapy
† Physical Therapy (DPT)

Department of Social Work
Social Services Technology (AAS)
† Social Work (BSW, MSW)
Nursing Home Administration (BSAS)

Aerospace Studies Program
††† Air Force ROTC program

*This degree is made available at Cuyahoga Community College and Lorain County Community College in addition to the YSU campus offerings.

**For the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act, please see Appendix C of this Bulletin.

†Restricted admission; see department for further information.

††In collaboration with the Beeghly College of Education, for the B.S. in Ed. degree.

††† ROTC students are allowed certain modifications of the requirements, as explained in the Military Science section. ROTC programs are offered in agreement with Kent State University.

•In collaboration with the College of Liberal Arts and Social Sciences and the College of Science, Technology, Engineering, and Mathematics.

••Through Cleveland State University.

It is the student’s responsibility to satisfy all the graduation requirements for the degree sought. These consist of:

1. The pre-college or preparatory courses for each degree as covered in the Academic Policies and Procedures section.

2. The courses and other requirements to be completed in the University as explained in the Academic Policies and Procedures section.

3. The specific curriculum requirements of a given program.

Course descriptions can be found in a separate section in the back of this Bulletin.

DEPARTMENT OF CRIMINAL JUSTICE AND FORENSIC SCIENCES
330-941-3279

Professor Pierce; Associate Professor Hazy; Assistant Professors Bellas, Clutter, Falinski, Frissora, Onwudiwe, Wagner (Chair), Wardle.

Youngstown State University offers two undergraduate programs in Criminal Justice and Forensic Sciences: a two-year program in Criminal Justice and Forensic Sciences leading to the degree Associate in Applied Science and a four-year program leading to the degree Bachelor of Science in Applied Science with a major in Criminal Justice and Forensic Sciences. The four-year degree is built upon a core-track concept with emphasis (track) areas in law enforcement, corrections, legal processes, and loss prevention/assets protection.

The department also offers eight (8) minors in several emphasis areas.

In each undergraduate area and certificate program, a grade of C or better must be received in each required Criminal Justice and Forensic Sciences course.

A graduate program is also available leading to the Master of Science degree in Criminal Justice and Forensic Sciences. Refer to the Graduate Bulletin for details.

Learning Outcomes

The student learning outcomes for majors within the Criminal Justice and Forensic Sciences Department are as follows:

• Students will identify the key aspects to the elements of law (Certificate in Basic Police Training and job preparation).

• Students will develop knowledge about criminological theories and public policy practices (legal, economic, and social) that influence the American Criminal Justice and Forensic Sciences system (Associate in Applied Science degree in Criminal Justice and Forensic Sciences).

• Students will communicate their knowledge about criminological theories and public policy practices (legal, economic, and social) that influence the institutions of the American Criminal Justice and Forensic Sciences system through details of its subsystems—policing, courts, and corrections (Bachelor of Science in Applied Science in Criminal Justice and Forensic Sciences).

• Students will understand the basic principles of the scientific disciplines (i.e. chemistry and biology) included in their curriculum. (Bachelor of Science in Applied Science in forensic science).

Admission Policy

Students wishing to transfer into the Department of Criminal Justice and Forensic Sciences must have a cumulative GPA of at least 2.0. Note: individuals with a felony, drug, and/or domestic violence conviction will experience difficulty gaining employment in the criminal justice and forensic sciences or forensic science field. Students with misdemeanor convictions should seek advice from an advisor in the Criminal Justice and Forensic Sciences program. Students with juvenile sex offense convictions should also seek advice.

Retention Policy

The Department of Criminal Justice and Forensic Sciences expects its majors and students enrolled in
its courses to engage in legal, ethical, professional, and civil behavior which respects the rights of all persons. Disruptive and inappropriate behavior (as defined in department, college, or University policy) may lead to removal from, or non-acceptance into, the department as a major or as an enrolled student in one of its courses. YSU requires a 2.0 overall GPA in order to graduate.

Certificate Program
Basic Police Officer Training

The certificate program in basic police officer training is considered appropriate for persons who are beginning a career in law enforcement. This certificate is considered a starting point in the new officer’s education. The certificate serves as an incentive to continue towards an associate or baccalaureate degree. All of the courses needed for the certificate are applicable for advanced degrees. A placement test is required for all English courses. Students must complete police academy training (OPOT), introduction to Criminal Justice and Forensic Sciences, policing, and writing 1. Students then must complete one of the following courses: introduction to sociology, introduction to philosophy, applied pathophysiology, or criminal courts.

Associate in Applied Science Degree

The Associate in Applied Science (AAS) degree in Criminal Justice and Forensic Sciences is considered appropriate for persons preparing for employment in many municipal, state and private police agencies as well as persons considering employment in local, state, federal, and private correctional facilities. The associate degree also is a stepping stone for those students who plan to go on for a bachelor’s degree. The associate degree in Criminal Justice and Forensic Sciences has three tracks: a law enforcement track, a corrections track, and a loss prevention/assets protection. All of the courses needed for the certificate are applicable for advanced degrees. A placement test is required for all English courses. Students must complete police academy training (OPOT), introduction to Criminal Justice and Forensic Sciences, policing, and writing 1. Students then must complete one of the following courses: introduction to sociology, introduction to philosophy, applied pathophysiology, or criminal courts.

Police Academy and Internships

YSU’s Criminal Justice and Forensic Sciences department now offers a full-service police academy, Basic Peace Officer Training Academy. Admission to the academy is open to all qualified applicants who meet admission standards of YSU and the Ohio Peace Officer Training Commission. All instructors in the Academy are certified by the Ohio Peace Officer Training Commission and meet all of the requirements to teach in the Basic Police Academy. YSU students who successfully complete the Academy will receive 12 semester hours of credit and a letter from the Ohio Peace Officers Training Commission that will qualify them for certification upon being commissioned. The new curriculum consists of a minimum 558 hours of training. Application packets can be picked up at the Academy Office, Cushwa Hall Room 2033.

YSU’s Criminal Justice and Forensic Sciences and Forensic Studies Department has an internship experience that provides students with an opportunity to integrate academic studies with the daily operation of a Criminal Justice and Forensic Sciences agency. Internships also foster the development of networking relationships with practitioners who can assist in procuring future employment. Certain criminal convictions may prohibit students from being eligible for an internship experience. Student interns register for 3 to 12 semester credit hours. Each credit hour requires approximately 45 on-site hours. This program is for seniors. Students can enroll in the Police Academy or an internship—not both.

Bachelor of Science in Applied Science Degree

A Bachelor of Science in Applied Science (BSAS) degree in Criminal Justice and Forensic Sciences requires a minimum of 124 semester hours. All Bachelor of Science in Applied Science students must complete a minimum of 45 semester hours of Criminal Justice and Forensic Sciences courses of which 36 semester hours or more must be taken from upper-division courses. This degree can be earned in eight semesters if students average 16 hours per semester.

Transfer students must complete a minimum of 18 hours in Criminal Justice and Forensic Sciences courses at YSU. All majors must complete the core requirements: CJFS 2601, 2602, 2603, 3710, 3712, 3715, 3719, and 3735; the courses required in the student’s chosen emphasis area; and 12 hours of CJFS electives not in the emphasis area (as designated on the department’s curriculum sheet).

The purpose of each emphasis area is as follows:

- The law enforcement track is designed for persons preparing for employment in municipal, state, and private agencies; federal law enforcement agencies; homeland security; administrative positions in municipal or state agencies; or as instructors in police education programs. Courses required: CJFS 3714, 3714L, 3740, 5825, and 4870.
• The corrections track is offered for students preparing for a career in probation, parole, or institutional services with either adults or juveniles. Courses required: CJFS 3702, 3702L, 5802, and 4803.

• The legal processes track is designed for students preparing for law school, court administration, paralegal work or legal research positions. Courses required: CJFS 3720, 3721, 5825, and 4890.

• The loss prevention/assets protection track is offered to students preparing for a career in private or homeland security or the protection of assets in corporate, retail, or industrial settings. Courses required: CJFS 3700, 3740, 3751, and 4848.

• A generalist track is available for transfer students and students seeking a nontraditional area of study such as victim's rights and juvenile justice. This track is available to students at institutions participating in the interactive distance learning (IDL) agreements with the University. Department approval and 15 hours of course work are required.

• A grade of C or better must be received in each required Criminal Justice and Forensic Sciences course in order to satisfy the departmental requirements for the degree.

Certificate in Basic
Peace Officer Training

General Certificate Requirements  

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJFS 1500</td>
<td>3</td>
</tr>
<tr>
<td>CJFS 2601</td>
<td>3</td>
</tr>
<tr>
<td>CJFS 3777</td>
<td>12</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>3</td>
</tr>
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</table>

Choose one of the following:

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 1500</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2000</td>
<td>3</td>
</tr>
<tr>
<td>AHLT 1502</td>
<td>4</td>
</tr>
<tr>
<td>CJFS 2602</td>
<td>3</td>
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</tbody>
</table>

Associate in Applied Science—Criminal Justice and Forensic Sciences

General Degree Requirements  

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>3</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>3</td>
</tr>
<tr>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>3</td>
</tr>
<tr>
<td>Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>4</td>
</tr>
<tr>
<td>Select one or two courses</td>
<td>3-6</td>
</tr>
<tr>
<td>STEM 2600</td>
<td></td>
</tr>
<tr>
<td>Speech</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td></td>
</tr>
<tr>
<td>Art/Literature</td>
<td>6</td>
</tr>
<tr>
<td>Select two-three courses</td>
<td></td>
</tr>
<tr>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td></td>
</tr>
<tr>
<td>Society and Institutions</td>
<td>3</td>
</tr>
<tr>
<td>Select one course</td>
<td></td>
</tr>
</tbody>
</table>
FORENSIC SCIENCE PROGRAM

Multidisciplinary program between the departments of Criminal Justice and Forensic Sciences, Biological Sciences, Chemistry, Health Professions, and Sociology and Anthropology.

Youngstown State University offers an undergraduate degree, Bachelor of Science in Applied Science, in forensic science. The program is housed in the Criminal Justice and Forensic Sciences Department. Forensic Science is a very unique and challenging application of science to the law. This program is designed to give students a broad theoretical and practical background in the scientific, legal, and investigative aspects of forensic science. Graduates of the program are uniquely prepared to continue their education in forensic science graduate programs or immediately begin careers in major crime labs. Students need to be aware of the fact that they will probably have to pursue a master’s degree and possibly a Ph.D. to obtain promotion to senior management positions in crime labs.

Admission Policy

Students wishing to transfer into the forensic science program must have and maintain a cumulative GPA of at least 2.5. **Note: individuals with a felony, drug, and/or domestic violence conviction will experience difficulty gaining employment in the Criminal Justice and Forensic Sciences or forensic science field.** Students with misdemeanor convictions should seek advice from an advisor in the Criminal Justice and Forensic Sciences program. Students with juvenile sex offense convictions should also seek advice.

Internships

YSU’s forensic science program requires an internship experience which will provide students with the opportunity to integrate academic studies with the daily operations of a crime lab. Internships also foster the development of networking relationships with practitioners who can assist in procuring future employment. **Certain criminal convictions may prohibit students from being eligible for an internship experience.** Each credit hour requires approximately 45 on-site hours.

Bachelor of Science in Applied Science Degree—Forensic Science

A Bachelor of Science in Applied Science degree in forensic science requires a minimum of 124 semester hours. The program is very detailed and specific in the courses that are required. Students have very few elective hours.

A minor is intended to contrast with or deepen the major or General Education. Forensic Science is an interdisciplinary major. Courses that are required for, or counted towards, the Forensic Science major cannot be counted towards a minor.

General Degree Requirements Courses Semester Hrs.

**Writing**

ENGL 1550 ................................................................. 3
ENGL 1551 ................................................................. 3

**Speech**

CMST 1545 ................................................................. 3

**Math**

MATH 1571 ................................................................. 4

**Selected Topics**

MATH 1572 ................................................................. 4

**Sciences**

BIOL 2601 & 2601L ...................................................... 4
BIOL 2602 & 2602L ...................................................... 4
PHYS 2610 & 2610L ...................................................... 5

**Art / Literature**

Select two courses ................................................... 6

**Society and Institutions**

CJFS 1500 ................................................................. 3
ANTH 1500 ................................................................. 3
Select one course ..................................................... 3

**Personal/Social Responsibility**

PHIL 2625 ................................................................. 3
Select one course ..................................................... 3
## Core Requirements

### Chemistry
- CHEM 1515 & 1515L & 1515R: 5
- CHEM 1516 & 1516L: 4
- CHEM 3719 & 3719L: 4
- CHEM 3720 & 3720L: 4

### Criminal Justice and Forensic Sciences
- CJFS 2602: 3
- CJFS 3714 & 3714L: 3
- CJFS 3721: 3
- CJFS 3723: 3
- CJFS 4807: 3-6
- CJFS 5814: 3

### Other
- PHYS 2611 & 2611L: 5
- STAT 3717: 4
- MATC 1501: 3

Complete one of the following emphasis areas:

### Biology
- BIOL 3721: 3
- BIOL 4890 & 4890L: 4
- BIOL 5827: 2
- CHEM 3785 & 3785L: 4

### Chemistry
- CHEM 2604 & 2604L: 5
- CHEM 3729: 3
- CHEM 3739: 4
- CHEM 5804 & 5804L: 4
- CHEM 3785: 3

### Anthropology
- ANTH 2600: 3
- ANTH 3703: 3
- ANTH 4800: 3
- ANTH 3779: 3
- ANTH 4480: 3
- ANTH 4481: 3
- BIOL 3705 & 3705L: 4

### Generalist
- CHEM 3729: 3
- CHEM 3739: 4
- MATH 2673: 4
- PHYS 3722 & 3722L: 4
- MTEN 3768: 3

### DEPARTMENT OF HEALTH PROFESSIONS

**330-941-3327**

*Professors Boyd, Delost, Feld, Juruaq, Mistovich (Chair), Vendemia; Associate Professors Kandray, Sanders; Assistant Professors Robinson, Yacovone, Volsko; Instructor Kearns.*

The department offers certificate programs and associate, baccalaureate, and master’s degree programs for future members of the health care delivery, public health, and health education team. Certificate programs are offered in medical coding, EMT, paramedic, and polysomnography. Associate degree programs are offered in dental hygiene, emergency medical technology, medical assisting technology, clinical laboratory technician, and histotechnology. Baccalaureate programs are offered in allied health, public health, clinical laboratory science (medical technology), and respiratory care. The allied health major courses can also be completed in a web-based format. A master’s degree program in health and human services offers two tracks: health promotion and administration for health and human service professionals. Details on program requirements appear under the specific program heading.

Admission to all programs except medical assisting technology and public health, is on a restricted basis, since only a limited number of students can be accommodated. Detailed information on admission criteria and closing dates for application is available in the Department of Health Professions, the Bitonte College of Health and Human Services Dean’s Office, or the Admissions Office.

For the graduate program leading to a Master of Health and Human Services degree refer to the Graduate School catalog for program details.

### ALLIED HEALTH PROGRAM

*Associate Professor Sanders (Program Director).*

The department offers a baccalaureate program leading to the degree Bachelor of Science in Applied Science (BSAS) with a major in allied health. This program is intended to serve paramedical professional health associate degree graduates who wish to upgrade their academic credentials to include the baccalaureate degree. Major courses in this program are available on-line, allowing students to complete coursework at a time and location convenient to them.

### Learning Outcomes

The student learning outcomes for the major in allied health are as follows:

- The student will apply critical thinking/problem solving skills to health care related issues.
- The student will demonstrate the ability to analyze current health care issues and to provide supporting arguments for their positions.
- The student will conceptualize, develop, and conduct research including data collection and analysis.
- The student will utilize current technologies such as, interactive video systems, computer and Web-based systems, to access information and communicate with others.
Allied Health Baccalaureate-Completion Program

Graduates with an associate degree in dental hygiene, emergency medical technology, respiratory care, medical assisting technology, clinical laboratory technology, or in a medical/health related discipline (for example, radiological technology, physical therapy assistant, or dietetics) will be admitted to the BSAS in allied health program as juniors.

Graduates of non-accredited programs will be provisionally admitted and placed at a level determined by an evaluation of their academic transcripts.

Curriculum

Associate Degree in Health-Related Discipline .....................................................64+ s.h.

Requirements

General Studies
Writing
ENGL 1550 ................................................................. 3
ENGL 1551 ................................................................. 3

Speech
CMST 1545 ................................................................. 3

Math
MATH 2623 or above ..................................................... 3

Natural Sciences (NS)
2-3 Courses *

Artistic and Literary Perspectives (AL)
2-3 Courses *

Societies and Institutions (SI)
2-3 Courses *

Personal and Social Responsibility (PS)
2 Courses

Selected Topics
1 Course or an additional course in NS, AL, SI, or PS.

* Total of 8 courses in NS, AL, and SI

Allied Health Major Courses ......................... 24 sh
AHLT 3708 Preventive Public Health Care ......... 3
AHLT 4804 Stress and the Health Professional ............................................. 3
AHLT 4805 Health Education for Allied Health ... 3
AHLT 4806 Research Methods ............................................. 3
AHLT 4810 Management Skills for Health Professionals ..................................... 3
AHLT 4820 Directed Research ............................................. 2
AHLT 5807 Epidemiology ..................................................... 3
AHLT 5840 Comparative Health Systems .......... 4

Allied Health Electives ........................... Select 6 sh
AHLT 3705 Pharmacotherapeutics ...................... 3
AHLT 3706 Practice Management for Dental Hygiene (YSU only) ...................... 3
AHLT 3709 Elements of Urban Environmental Health Practice ........................ 3

AHLT 3710 Gerontology (YSU only) ................. 3
AHLT 3720 EMS Management (YSU only) .......... 3
AHLT 3721 Pediatric Emergency Care (YSU only) 3
AHLT 3740 Pathology of Infectious Diseases ....... 3
AHLT 4801 Special Topics ............................................. 1-3
AHLT 4808 Environmental Health Concerns ....... 3
AHLT 4812 Advanced Cardiac Life Support (YSU only) .................................. 3
AHLT 3755 Principles of Occupational Health/Safety ....................................... 3
AHLT 4830 Pediatric Life Support (YSU only) .... 2
AHLT 4831 Industrial Hygiene ................................. 3
AHLT 4831L Industrial Hygiene Lab (YSU only) .. 1
AHLT 4835 Health Care Diversity ............................. 1
AHLT 5816 Environmental Regulations ................ 3

Minor (Optional) or elective courses ............. 18+

Upper-Division Courses or above Required .... 48

Total Hours ...................................................... 124 Minimum

Pre-admission counseling is required for students seeking entry to the B.S.A.S. in Allied Health. For greater detail on program content or admissions, students should contact the Department of Health Professions.

CLINICAL LABORATORY PROGRAMS

Professor Delost (Program Director) and Professor Boyd.

Laboratory tests play an important role in the detection, diagnosis, and treatment of many diseases. Laboratory professionals perform a myriad of such tests to aid the physician in the management of disease.

Learning Outcomes

The student learning outcomes for the clinical laboratory programs (CLS-BSAS and CLT-AAS) are as follows:

- Graduates will be prepared to function as entry-level health care professionals in the clinical laboratory as clinical laboratory technicians and clinical laboratory scientists. At entry level, the clinical laboratory graduate will be able to demonstrate the ability to comprehend, apply and evaluate information relative to the clinical laboratory professional.

- For the CLT and CLS programs, this includes comprehension of the theory and the ability to apply and evaluate the didactics of hematology, clinical chemistry, immunohematology, microbiology, immunology, coagulation, molecular, and other emerging diagnostics.

- Graduates will be prepared to function as entry-level health care professionals in the clinical laboratory as clinical laboratory technicians and clinical laboratory scientists. Upon completion of the program, graduates will demonstrate technical proficiency in laboratory applications.

- For the CLT and CLS programs, this includes the performance of laboratory procedures in
hematology, clinical chemistry, immunohematology, microbiology, immunology, coagulation, molecular, and other emerging diagnostics. The graduate will demonstrate proficiency in the functions of all phases of laboratory analysis (pre-analytical, analytical, and post-analytical processes).

• Graduates will demonstrate professional conduct and interpersonal communication skills consistent with the clinical laboratory profession.

• Students will exhibit the ability to critically think across all 37—level courses through the application of fundamental didactic and psycho motor skills to assess the clinical relevance and significance of specific aspects of laboratory testing.

Clinical Laboratory Technician (Medical Laboratory Technician)

The clinical laboratory technician (medical laboratory technician) program is a two-year program leading to the Associate in Applied Science degree. The curriculum focuses on the knowledge and basic skills necessary to understand and master the procedures performed in the medical laboratory. Included are the principles, methods, calculations, and interpretation of laboratory procedures, computer technology, and communication and interpersonal skills. Technical instruction includes procedures in hematology, microbiology, immunohematology, clinical chemistry, and body fluids. This program requires five semesters of study including one summer semester.

Clinical laboratory technicians (CLT) work in a supportive role in a hospital laboratory, private laboratory, clinic, public health facility, or pharmaceutical laboratory. The CLT performs laboratory tests under the supervision or direction of pathologists and other physicians, and clinical laboratory scientists (medical technologists). Physicians use these tests to determine the presence and extent of disease, the etiologic implications about the cause of disease, and to monitor the treatment of the disease.

The CLT collects samples from patients and develops data on the blood, tissues and body fluids by using a variety of precise methodologies and technologies. Clinical laboratory technicians use modern instruments, with the ability to discriminate between similar items and correct errors using preset strategies. The CLT has knowledge of specific techniques and instrumentation and is able to recognize factors that affect laboratory procedures. The CLT also monitors quality assurance procedures.

The CLT program is accredited through the National Accrediting Agency for Clinical Laboratory Sciences (5600 N. River Rd., Suite 720, Chicago, IL 60018-5119; phone 773-714-8886; www.naacls.org) and meets the standards developed by the American Society of Clinical Pathologists (ASCP) and the American Society of Clinical Laboratory Science (ASCLS). Graduates are eligible to take the certification examinations for MLT/CLT offered through ASCP and ASCLS and become certified as an MLT (ASCP) or as a CLT (NCA).

Students in the program must have a physical examination and provide records of their immunizations. The hepatitis B vaccine series is strongly recommended for each new student.

Completion of the program requires a semester of clinical internship. Students receiving a total of 6 semester hours of D or F grades in CLT, biology, or chemistry courses will not be placed in a clinical internship. Only those students who have completed the first four semesters of the program with a minimum GPA of 2.5 will be considered for placement in a clinical internship. CLT’s are expected to function with a maximum degree of effectiveness in professional attitude, patient relations, and integrity. The capacity for competent performance at all levels must be assured before the student will be assigned to a clinical internship. The student must be competent in the didactic (knowledge), psychomotor (laboratory skills), and affective realm (attitude and responsibility) prior to clinical placement.

Clinical Laboratory Technician (CLT-AD) Curriculum

<table>
<thead>
<tr>
<th>FALL – 1</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td></td>
</tr>
<tr>
<td>CLTC 1501 &amp; 1501L: Introduction to Clinical Laboratory Science and Laboratory</td>
<td>2+1</td>
</tr>
<tr>
<td>ENGL 1550: Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2601 &amp; 2601L: General Biology 1 with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1515 &amp; 1515L: General Chemistry 1 with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPRING – 1</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
<td></td>
</tr>
<tr>
<td>CLTC 1502 &amp; 1502L: Urinalysis and Laboratory</td>
<td>2+1</td>
</tr>
<tr>
<td>CLTC 1503 &amp; 1503L Immunohematology and Laboratory</td>
<td>3+1</td>
</tr>
<tr>
<td>BIOL 2602 &amp; 2602L: General Biology 2 with Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CLTC 2601 &amp; 2601L: Clinical Chemistry 1 with Laboratory</td>
<td>2+1</td>
</tr>
<tr>
<td>ENGL 1551: Writing 2</td>
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</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
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</table>

<table>
<thead>
<tr>
<th>SUMMER – 1</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses</td>
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</tr>
<tr>
<td>CLTC 3701/L: Hematology 1</td>
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</tr>
<tr>
<td>CLTC 3700 &amp; 3700L: Clinical Chemistry II and Laboratory</td>
<td>3+1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7</strong></td>
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</tbody>
</table>
The clinical laboratory science (medical technology) program is a four-year program leading to a Bachelor of Science in Applied Science degree with a major in clinical laboratory science. Students in the program must have a physical examination and provide records of their immunizations. The Hepatitis B vaccine series is strongly recommended.

All course work in the CLS program must be completed with a minimum grade of “C”. Students must maintain an overall GPA of 2.5 and a GPA of 2.5 in all CLTC courses. Students receiving a total of 6 semester hours of D or F grades in CLTC, biology, or chemistry courses will be dismissed from the program. Readmission to the program is based on GPA and on the availability of space in the class.

The program follows the “3+1” format with the student completing a pre-professional phase of courses in clinical laboratory technology, general chemistry, biological sciences, organic and biochemistry, microbiology, immunology, and mathematics during the first three years of the program. The final year of the program is completed at an accredited CLS/MT hospital program. The program meets the requirements of NAACLS. Upon successful program completion, graduates are qualified to take the certification examinations offered through ASCP and ASCLS (NC) and become certified as a MT(ASCP) or as a CLS(NCA).

Clinical laboratory scientists (medical technologists) perform hundreds of scientific procedures that have been devised to detect subtle changes that occur in disease. The CLS/MT performs a full range of laboratory tests, ranging from simple blood cell counts to more complex tests to uncover diseases such as leukemia and diabetes. Studying blood cells under the microscope, the analysis of the chemical composition of blood, the isolation and identification of disease causing bacteria, and blood typing and cross matching for transfusions are examples of the complicated procedures performed by clinical laboratory scientists. Positions are available as bench-level technologists, supervisors, and laboratory managers.

In addition to traditional laboratory careers, there are opportunities in education and research, and in industry as technical and sales representatives. In their quest to aid the physician, laboratory professionals do much more than look through a microscope. They operate complex electronic equipment, compute, and precision instruments, acting as an integral part of the health care team. Because of their academic and diverse clinical experience, graduates are well qualified for post-graduate programs in medicine, clinical chemistry, and biology.
### SUMMER – 2

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>CLTC 3701/L: Clinical Hematology</td>
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<tr>
<td>CLTC 3700/3700L: Clinical Chemistry and Laboratory</td>
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### THIRD YEAR - FALL – 3

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>CHEM 3785/3785L: Biochemistry and Laboratory</td>
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<tr>
<td>CLTC 3702L: Clinical Hematology</td>
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<tr>
<td>CLTC 3787/3787L: Diagnostic Microbiology and Laboratory</td>
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### SPRING – 3

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>CLTC 3703 &amp; 3703L: Clinical Immunology &amp; Laboratory</td>
<td>3+1</td>
</tr>
<tr>
<td>Two Society &amp; Institutions electives</td>
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</tr>
<tr>
<td>BIOL 3711: Cell Biology</td>
<td>3</td>
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### SUMMER – 3

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>CLTC 4811: Clinical Experience</td>
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### FALL – 4

<table>
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<th>Semester Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CLTC 4821: Clinical Experience</td>
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### SPRING – 4

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLTC 4831: Clinical Experience</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Program Hours: 132

### CLS Internship Guidelines

Students should apply for clinical internship upon completion of the second year of the program or after completing approximately 60-65 semester hours. Application packets containing information on clinical affiliations and the application process are available from the program director or in the Department of Health Professions. Students should apply for graduation at the beginning of the junior year so that their transcripts may be evaluated by an academic advisor in the Bitonte College of Health and Human Services. This will help ensure that all of the requirements for internship and graduation have been fulfilled.

The University does not guarantee acceptance into the fourth year of hospital clinical internship. Selection and acceptance into a particular hospital program is based on that program’s admission and selection process. Thus, students are selected by the hospital programs, which are very competitive. Students are urged to maintain a minimum 3.0 GPA, especially in all science and clinical laboratory courses. To enhance their chances of acceptance into clinical internship, students are encouraged to apply to several accredited programs. A list of these programs is available through the program director.

### Histotechnician

**Professor Delost (Program Director) and Professor Boyd.**

The two-year histotechnician program is a two-year program that leads to an Associate in Applied Science degree. Students in the program are required to have a physical examination and provide records of their immunizations. The Hepatitis B vaccine series is strongly recommended. The program requires five semesters of study including one summer semester.

Pathologists and other scientists specializing in biological sciences work in partnership with medical laboratory workers to analyze blood, tissues, and fluids from humans using a variety of precision instruments. The results of these tests are used to detect and diagnose disease and other abnormalities. The main responsibility of the histotechnician in the clinical laboratory is preparing sections of body tissues for examination by the pathologist. This includes the preparation of tissue specimens of human and animal origin for diagnostic, research, and teaching purposes. Tissue sections prepared by the histologic technician for a variety of disease entities enable the pathologist to diagnose body dysfunction and malignancy.

The curriculum includes both didactic instruction and practical demonstration in the areas of biology, chemistry, laboratory mathematics, computer technology, histology, instrumentation, microscopy, anatomy, quality control. The first three semesters of the program consist of laboratory and didactic courses taught on the YSU campus. The final two semesters consist of the clinical practicums that are held at affiliated laboratories and in the university setting.

The program is accredited through the National Accrediting Agency for Clinical Laboratory Sciences National Accrediting Agency for Clinical Laboratory Sciences (5600 N. River Rd., Suite 720, Chicago, IL 60018-5119; phone 773-714-8886; www.naacls.org). To ensure that graduates are competent and able to perform high-quality laboratory tests, the Board of Registry of the American Society of Clinical Pathology (ASCP) gives a national certification examination. Upon successful completion of their academic and laboratory education requirements, graduates are eligible to take the certification examination and become certified as HT(ASCP).

Histologic technicians play important roles in the detection of cancer cells. Once a sample tissue is taken from a patient, the histotechnician prepares very thin sections of body tissue for microscopic examination. With the information learned from the section of tissue biopsy, the physician can determine if disease is present, if it has spread, and recommend the best course of treatment for the patient.
The histologic technician works with fragile, delicate instruments as well as knives, chemicals, and glass slides. He or she must value precision and have good hand-eye coordination and manual dexterity.

Histologic technicians have an unlimited choice of practice settings. Hospitals, for-profit laboratories, clinics, public health facilities, business and industrial settings currently have positions for qualified histologic technicians. Other opportunities may be found in industrial research, veterinary pathology, marine biology, and in forensic pathology.

Learning Outcomes

The student learning outcomes for the histotechnician program are as follows:

- Graduates will be prepared to function as entry-level health care professionals in the clinical laboratory as histotechnicians. At entry level, the graduate will be able to demonstrate the ability to comprehend, apply and evaluate information relative to the clinical laboratory professional.

- For the HT-AD, this includes comprehension of the theory and the ability to apply and evaluate the didactics of specimen processing, accessioning, microscopy, instrumentation, staining, immunodiagnostics and microtomy.

- Graduates will be prepared to function as entry-level health care professionals in the clinical laboratory as histotechnicians. Upon completion of the program, graduates will demonstrate technical proficiency in laboratory applications.

- For the HT-AD, this includes the laboratory processes of receiving and accessioning tissue specimens; processing and preparing tissues specimens for microscopic examination, microtomy, embedding, staining, and assisting with frozen sections; identifying tissue structures and their staining characteristics.

- Graduates will demonstrate professional conduct and interpersonal communication skills consistent with the clinical laboratory profession.

- Graduates will interact with and communicate with members of the healthcare team, external relations, customer service, and patient education recognizing the responsibilities of other healthcare personnel and interacting with them with respect for their jobs and patient care.

- Graduates will demonstrate the ability to process information, apply the principles of laboratory safety, successfully complete training and continuing education activities, and participate in quality control monitoring.

- Students will exhibit the ability to critically think across all the 2nd year courses specific to the disciplines which include seminar and clinical practicum through the application of fundamental didactic and psychomotor skills to assess the clinical relevance and significance of specific aspects of testing in histotechnology.

Histotechnician (HT-AD) Curriculum

All biology, chemistry, and CLTC courses must be completed with a minimal grade of “C”. Students are permitted to repeat a maximum of six hours of coursework. Any student receiving over six hours of grades of “D” or “F” in biology, chemistry, or CLTC will be dismissed from the program. The HT program follows a restricted admission policy.

**FALL – 1**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 1515 &amp; 1515L: General Chemistry 1 with Lab</td>
<td>4</td>
</tr>
<tr>
<td>Biol 2601 &amp; 2601L: General Biology 1 with Lab</td>
<td>4</td>
</tr>
<tr>
<td>CLTC 1501 &amp; 1501L: Introduction to Clinical Laboratory Science</td>
<td>2+1</td>
</tr>
<tr>
<td>Personal &amp; Social Responsibility elective</td>
<td>3</td>
</tr>
<tr>
<td>Engl 1550: Writing 1</td>
<td>3</td>
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</table>

**SPRING – 1**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1516 &amp; 1516 L: General Chemistry 2 with Lab</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2602 &amp; 2602L: General Biology 2 with Lab</td>
<td>4</td>
</tr>
<tr>
<td>CLTC 2609: Topics in Histotechnology</td>
<td>2</td>
</tr>
<tr>
<td>CLTC 2609L: Topics in Histotechnology Lab</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 1551: Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545: Communication Theory &amp; Practice</td>
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</table>

**SUMMER – 1**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1551: Anatomy &amp; Physiology 1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 3711: Cell Biology - Fine Structure</td>
<td>3</td>
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</tbody>
</table>

**FALL – 2**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLTC 2612: Histotechnician Practicum 1</td>
<td>11</td>
</tr>
<tr>
<td>CLTC 2621: Histotechnician Seminar 1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1552: Anatomy &amp; Physiology 2</td>
<td>4</td>
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**SPRING – 2**

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<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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</thead>
<tbody>
<tr>
<td>CLTC 2621: Histotechnician Seminar 2</td>
<td>1</td>
</tr>
<tr>
<td>CLTC 2622: Histotechnician Practicum 2</td>
<td>11</td>
</tr>
<tr>
<td>Artistic &amp; Literary Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total program hours** 72
DENTAL HYGIENE

Professors Guerra, Vendemia; Associate Professors Haggerty (Program Director), Juraz, Kandray.

The two-year program in dental hygiene leads to the Associate of Applied Science degree. This program requires five semesters of study including one summer semester. The program is designed to prepare dental hygienists for work in private practice, in school systems, dental health programs, health agencies, hospitals, research programs, or public health settings.

At the end of the second year in the program, students are eligible to take state and national board examinations. Upon successful completion of these comprehensive written and clinical examinations, the student may apply for a license to practice dental hygiene in the state as a registered dental hygienist.

The registered dental hygienist is a licensed professional who provides dental hygiene treatment and related preventive services. Clinical skills of the hygienist include the administration of local anesthesia, recording medical and dental histories; exposing radiographs; making study models; performing extra-oral and intra-oral examinations which include cancer screenings; dietary management; dental charting; preliminary periodontal evaluations; scaling and root planing; polishing; patient education; placing sealants and administering fluoride therapy. Many states permit the hygienist to perform additional duties such as placing restorative materials.

The dental hygienist also functions as a dental health educator and is responsible for the preventive dental health program in private dental practices as well as in other settings. The hygienist teaches patients proper oral health care in order to reduce dental diseases and disorders.

The hygienist’s role in service to the community may include increasing public awareness of dental health by participating in Give Kids a Smile Day in the community, serving as a resource person to school systems, providing screenings to various children or local groups, and making visits to nursing homes, hospitals and schools.

Learning Outcomes

The student learning outcomes for the dental hygiene program are as follows:

- Graduates will be competent in determining and applying legal, ethical, and regulatory concepts in dental hygiene care.
- The students will be competent in providing patient education programs and community service to diverse populations.
- The students will be competent in performing clinical skills necessary to achieve and maintain the oral health of their patients.

Admission to the Program

Students are admitted to the dental hygiene program only once a year. The admission policy is available in the Department of Health Professions and the Dental Hygiene office.

Current students applying to the dental hygiene program must submit a completed application form to the College of Health and Human Services dean’s office by December 31 to be considered for direct entry to the program for the following fall.

High school, transfer, and former students must apply for admission to YSU by December 31. The University must receive all admission credentials (official transcripts, etc.) directly from the issuing institution by January 31.

In addition to history, U.S. government and social sciences, freshman applicants must have high school credit in the following subjects with grades of “C” or higher and a GPA of 3.2 (on a 4.0 system): algebra I, algebra II or geometry, chemistry and biology. The overall high school GPA must be 3.0 or higher.

Freshman applicants who have not graduated from high school but have passed the General Education Development (GED) test must also have completed algebra I, algebra II or geometry, biology, and chemistry with a grade of “C” or higher and a GPA of 3.2 (on a 4.0 system) in these subjects.

Students accepted to the program must have completed Human Anatomy and Physiology for Allied Health majors prior to fall semester of their first year. Current, former, and transfer students must meet all the requirements for freshman admission, and have a minimum 2.5 overall college average and a program grade point average of 2.7 (on a 4.0 system). In addition, one laboratory science course is required in the program, either biology (BIOL 1545/1545L Allied Health Anatomy & Physiology) or chemistry (CHEM 1505/1505L Allied Health Chemistry) I must be completed by the end of the fall semester of the year of application. Meeting minimum requirements does not assure acceptance into the dental hygiene program.

Prospective students must complete a minimum of 12 hours of observation of a registered dental hygienist in two separate dental offices or clinics. Observation forms are available on the Dental Hygiene website. Each prospective student must print the form and fill it out and return by December 31 of the year of application. Mail with appropriate signatures to: Youngstown State University, Dental Hygiene Program, One University Plaza, Youngstown, OH 44555.
### Dental Hygiene Curriculum

**PREREQUISITE SUMMER SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1545 Human Anatomy and Physiology for</td>
<td></td>
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<tr>
<td>Allied Health Majors</td>
<td>5</td>
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</table>

**FIRST YEAR FALL SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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</thead>
<tbody>
<tr>
<td>DHYG 1511 Dental Hygiene 1</td>
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<tr>
<td>DHYG 1511L Clinical Dental Hygiene 1</td>
<td>2</td>
</tr>
<tr>
<td>DHYG 1521 Dental Anatomy</td>
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<tr>
<td>DHYG 1521L Dental Anatomy Lab</td>
<td>1</td>
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<tr>
<td>CHEM 1505 Chemistry for</td>
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</tr>
<tr>
<td>Allied Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1550 Writing 1</td>
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<tr>
<td>BIOL 1560 Microbiology for Health Professions</td>
<td>2</td>
</tr>
<tr>
<td>CLTC 2687 Microbiology for Health Professions</td>
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**SPRING SEMESTER**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>DHYG 1529 Management of the Medically</td>
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<tr>
<td>Compromised Patient</td>
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<tr>
<td>DHYG 1512 Dental Hygiene 2</td>
<td>2</td>
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<tr>
<td>DHYG 1512L Clinical Dental Hygiene 2</td>
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<td>DHYG 1530 Dental Radiology</td>
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<td>DHYG 1535 General and Oral Pathology</td>
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<td>CHEM 1506 Chemistry for</td>
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<td>Allied Health Sciences</td>
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**SUMMER SEMESTER**

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<tr>
<td>ENGL 1551 Writing II</td>
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<td>DHYG 1513 Dental Hygiene 3</td>
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<tr>
<td>DHYG 1513L Clinical Dental Hygiene 3</td>
<td>1</td>
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<tr>
<td>PSYCH 1560 General Psychology</td>
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<tr>
<td>DHYG 2623 Pharmacology for Dental Hygienist</td>
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**SECOND YEAR FALL SEMESTER**

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<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>DHYG 2614 Dental Hygiene 4 Seminar</td>
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<tr>
<td>DHYG 2614L Clinical Dental Hygiene 4</td>
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<tr>
<td>DHYG 2611 Dental Materials</td>
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<tr>
<td>DHYG 2611L Dental Materials Lab</td>
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<tr>
<td>DHYG 2622 Periodontology</td>
<td>2</td>
</tr>
<tr>
<td>DHYG 3724 Local Anesthesia and Pain Control for Dental Hygienist</td>
<td>2</td>
</tr>
<tr>
<td>DHYG 3724L Local Anesthesia and Pain Control Clinic</td>
<td>1</td>
</tr>
<tr>
<td>SOC 1500 Fundamentals of Sociology</td>
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</tr>
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### EMERGENCY MEDICAL TECHNOLOGY

*Professor Mistovich; Instructor Kearns (Program Director).*

Emergency medical technology programs are designed to educate persons to provide emergency pre-hospital care to people experiencing health crises. The goals of these programs are on three different levels: Emergency Medical Technician; Paramedic Certification; and the Associate in Applied Science degree.

The Emergency Medical Technician certificate is the entry level EMS provider, and is also a prerequisite for admission to the paramedic program in addition to other University and department admission requirements.

The Paramedic Certificate can be attained after successfully completing three semesters of study. The course of study provides the student with knowledge about the recognition, assessment, and practice of emergency medical care in the pre-hospital setting on an advanced life-support unit. It meets and exceeds all United States Department of Transportation National EMS Education Standards and is accredited by the Committee on Accreditation of Educational Programs for the EMS Professions (CoAEMSP #600045), and the Ohio Department of Public Safety-Division of EMS (#333).

The Associate in Applied Science degree is awarded following the completion of the advanced training program with clinical paramedical experiences. This program includes coursework for critical care paramedicine and multi-skilled EMS practitioner. Thirty percent of all teaching and clinical rotations are physician-instructed and/or precepted. To obtain the Associate in Applied Science degree (including the Emergency Medical Technician Certificate and the Paramedic Certificate), will require five semesters of study including one summer semester.

For the certificate, admission requirements and procedures are the same as those applicable to the University and the Department of Health Professions with the addition of a minimum age of 18 years, and a current driver’s license or state-issued I.D. The student must be Ohio EMT certified prior to being
accepted into the paramedic program. A physical examination to attest good health and a background check is required. Admission into the Associate in Applied Science degree program is restricted. Please refer to the admission policies available from the Department of Health Professions.

Learning Outcomes
Graduates in the paramedic program will
- Demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their role as a paramedic (cognitive).
- Demonstrate technical proficiency in all skills necessary to fulfill the role as a paramedic (psychomotor).
- Demonstrate personal behavior consistent with professional and employer expectations for the paramedic (affective).

Emergency Medical Technology Curriculum

FIRST YEAR

FIRST SEMESTER (FALL)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTC 1501 Introduction to Prehospital Medicine</td>
<td>1</td>
</tr>
<tr>
<td>EMTC 1502 General Patho. and Techniques for Prehospital Medicine</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 1503 Patient Assessment and Airway Management</td>
<td>1</td>
</tr>
<tr>
<td>EMTC 1504 Principles of Trauma</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 1505 Emergency Medical Techniques I - Lab</td>
<td>1</td>
</tr>
<tr>
<td>EMTC 1506 Emergency Department Clinical I</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 1545 Human Anatomy and Physiology for Allied Health Majors</td>
<td>5</td>
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SECOND SEMESTER (SPRING)

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>EMTC 1510 Cardiopulmonary Emergencies</td>
<td>3</td>
</tr>
<tr>
<td>EMTC 1511 Cardiopulmonary Techniques Lab</td>
<td>1</td>
</tr>
<tr>
<td>EMTC 1512 Medical Emergencies</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 1513 Emergency Medical Techniques II - Lab</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 1514 Emergency Medical Services Operations</td>
<td>1</td>
</tr>
<tr>
<td>EMTC 1515 Clinical Experience I</td>
<td>1</td>
</tr>
<tr>
<td>EMTC 1516 Prehospital Internship Experience I</td>
<td>1</td>
</tr>
<tr>
<td>MATC 2605 General Pharmacology</td>
<td>3</td>
</tr>
</tbody>
</table>

THIRD SEMESTER (SUMMER)

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<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>EMTC 2600 Emergency Medicine Special Topics</td>
<td>3</td>
</tr>
<tr>
<td>EMTC 2601 Emergency Medicine Special Topics - Lab</td>
<td>1</td>
</tr>
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</table>

FOURTH SEMESTER (FALL, SECOND YEAR)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>EMTC 2610 Pathophysiology for Critical Care Paramedicine</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 2611 Assessment and Mngt. for Critical Care Paramedicine</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1550 Basic Composition I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1505 Chemistry for Health Sciences with Lab</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 1560 Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545 Public Speaking</td>
<td>3</td>
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</table>

FIFTH SEMESTER (SPRING, SECOND YEAR)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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</thead>
<tbody>
<tr>
<td>EMTC 2620 Research Methodology for EMS</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 2630 Multiskilled EMS Practitioner</td>
<td>2</td>
</tr>
<tr>
<td>EMTC 2631 Advanced Clinical and Field Internship Experience</td>
<td>2</td>
</tr>
<tr>
<td>ENGL 1551 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1500 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Art and Lit.</td>
<td>3</td>
</tr>
</tbody>
</table>

Award Paramedic Certificate after 36 semester hours

Award Associate Degree

Total Program Hours: 70 semester hours

MEDICAL ASSISTING TECHNOLOGY

Professor Feld (Program Director).

The medical assisting technology program is a two-year program leading to the Associate in Applied Science degree. The program requires five semesters of study averaging 15 hours per semester to complete.

The two-year Associate in Applied Science degree program in medical assisting technology at Youngstown State University is accredited by the commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB).

The Commission on Accreditation and Allied Health Education Programs.
1361 Park Street
Clearwater, FL. 33756
727-210-2350

Upon graduation, the student is eligible to apply for the certification exam given by the American As-
sociation of Medical Assistants (AAMA). Successful completion of the exam confers the designation Certified Medical Assistant, or CMA (AAMA).

The curriculum provides graduates with the skills necessary to perform dual roles as administrative and/or clinical assistants in private physician offices, clinics, or hospital outpatient departments. The administrative skills include: public relations, receptionist activities, record management, secretarial skills, bookkeeping, insurance and coding, banking, payroll and managerial responsibilities. Clinical skills include: preparing the patient for examination and procedures, taking medical histories and patient assessment, operating and maintaining medical equipment, collecting specimens, performing laboratory tests, and teaching and counseling patients. Admission to the program is not restricted, but high school prerequisites include a science, math, and computer or typing course.

A grade of C or better is required in all MATC courses and a 2.0 over-all grade point average (GPA) is required to register for MATC 2692, Medical Assisting Externship (Practicum). The student is not allowed to receive any type of compensation, monetary or otherwise, from the externship site. Prior to scheduling the practicum, the student’s records will be reviewed by the program director to determine if all MATC courses have been satisfactorily completed and all deficiencies have been made up.

The student must have a physical examination report with a negative tuberculin-screening test and hepatitis B vaccination prior to MATC 2620, MATC 2680 and the practicum.

The student must have current certification in Red Cross First Aid and CPR to participate in the externship experience.

Learning Outcomes

Graduates of the medical assisting technology program will:

• Demonstrate the ability to comprehend, apply, and evaluate relevant information presented in medical assisting and related courses to the role of the entry-level medical assistant in a variety of medical settings.

• Demonstrate technical proficiency in the performance of the administrative and clinical competencies as outlined in the essentials for the Commission on Accreditation on Allied Health Education Programs and the American Association of Medical Assistants Endowment accreditation process.

• Demonstrate interpersonal skills and participate in professional activities including continuing educational opportunities consistent with the professional expectations of a (certified) medical assistant.

• Be able to function as an entry-level medical assistant by demonstration of proficiency in administrative and clinical competencies in a variety of medical settings.
Opportunities for employment include all types of health care environments, such as hospitals, outpatient facilities, physician offices, medical billing services, and insurance companies. As a member of the health information team, the medical coding specialist is responsible for translating diagnostic and procedural phrases into coded form. The coded information is then utilized for reimbursement purposes, analysis of patient outcomes and research.

**Medical Coding Specialist Curriculum**

**Major Requirements**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATC 1501 Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>MATC 1502 Medical Law &amp; Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MATC 2600 Medical Insurance Forms</td>
<td>2</td>
</tr>
<tr>
<td>MATC 2602 Diagnostic &amp; Procedure Coding</td>
<td>2</td>
</tr>
<tr>
<td>MATC 2604 Intermediate Medical Diagnostic and</td>
<td></td>
</tr>
<tr>
<td>Procedural Coding</td>
<td>2</td>
</tr>
<tr>
<td>MATC 2610 Introduction to Disease Processes</td>
<td>3</td>
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<tr>
<td>Or</td>
<td></td>
</tr>
<tr>
<td>AHLT 1502 Applied Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>MATC 2614 Medical Office Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CSIS 1514 Business Computer Systems</td>
<td>3</td>
</tr>
<tr>
<td>Or</td>
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<tr>
<td>INFO 1575 Document Preparation</td>
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**Suggested Electives**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>MATC 2605 Introduction to Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>MATC 2612 Medical Records</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Semester Hours** ........................................ 24-26

**PUBLIC HEALTH**

*Assistant Professor Robinson.*

The public health program offers the Bachelor of Science in Applied Science (B.S.A.S.) degree and can be completed in eight semesters if students average 16 hours per semester. The program offers a minor in public health and community health planning and evaluation. It contributes to the University’s general education requirements by offering PHLT 1531 Fundamentals of Public Health and PHLT 1568 Healthy Lifestyles, which meet the general education requirement for personal and social responsibility. To be admitted to the public health program, a student must have a minimum GPA of 2.0. To continue enrollment in the major, students must maintain a 2.0. If a student falls below a 2.0 GPA, he or she can only re-apply to the major after a minimum GPA of 2.0 has been achieved.

There are five standard areas in public health training that enable students to perform the essentials services of public health. These are epidemiology, biostatistics, health services administration, environmental health, and behavioral science/health education. The curriculum for the YSU bachelor’s degree in public health addresses each of the five core areas through multiple courses. This curriculum enables mastery at the bachelor’s level of the nationally recognized Public Health Core Competencies, and requires an internship tailored to the area of public health interests of each student. This contemporary major also includes two 3-semester-hour courses in bioterrorism, mass casualty and crisis management in public health. All of the professional courses for the degree can be completed through online distance learning options.

The B.S.A.S. in public health can also prepare the student to become a Certified Health Education Specialist (CHES). CHES assess individual and community health needs; plan and implement effective health education and health promotion programs; coordinate and manage the provision of health education and promotion services; effectively communicate health and health education needs, concerns and resources; and conduct program evaluation.

The public health program integrates classroom and experiential learning in many of its courses. Public health graduates are employed in public health agencies, non-profit health organizations, hospitals and other health and care settings, and governmental agencies.

**Learning Outcomes**

The student learning outcomes for public health are as follows:

- The public health student will demonstrate skill in program planning and evaluation, program implementation and coordination and effective use of resources by achieving a score of at least 85% on comprehensive competency exam taken as part of the PHLT4899 Senior Seminar course. Data is collected on all students.

- The public health student will demonstrate competence in core public health subject content (public health concepts, epidemiology, statistics, administration, environmental health and health education) by achieving a score of at least 85% on a comprehensive content exam taken as part of the PHLT4899 Senior Seminar course. Data is collected on all students.

- The public health student will demonstrate mastery of entry level public health competency by receiving an internship score of at least 85% as assessed by her/his community-based internship supervisor. Data is collected on all students.

- The public health student will demonstrate ability to seek employment by creating a resume that meets the acceptability standards of the YSU Career Services Health Advisor, as demonstrated by an indication of acceptability signed by the Health program advisor in the Career Center. Data is collected on all students.

During the freshman and sophomore years, students are expected to take the courses that meet the requirements for general education. In addition to the English and communications requirements,
specific general education courses for the BSAS public health degree program include PHLT 1531, PHLT 1568, BIOL 1545 and Lab, FNUT 1551, and SOC 1500. Additional required courses during the first two years of study include: a 3 semester-hour approved philosophy course, an approved quantitative course, a 3-semester-hour social/cultural issues course, required prerequisites for selected courses. Core requirements of the major: PHLT 3701L, 3702, 3757, 3791, 4826, 4827, 4828, 4891, 4899, 5893W, 5893M, AHLT 3708, ALHT 3740, 4808, 4810, 5807, MATC 1501, GEOG 2610 and 5810; and 12 semester hours of additional approved public health coursework. A total of 124 semester hours are required for the B.S.A.S. in public health. No minor is required for this professional BSAS degree.

**RESPIRATORY CARE**

*Assistant Professor Volsko (Program Director), Assistant Professor Yacovone.*

Respiratory care is an allied health profession concerned with the diagnostic evaluation, treatment, and management of patients with cardiopulmonary disorders. The respiratory care practitioner (RCP) is proficient in the therapeutic administration of medical gases and aerosols, intermittent and continuous mechanical ventilation, broncho-pulmonary hygiene, basic and advanced cardiac life support techniques, non-invasive patient monitoring, pulmonary function evaluation, arterial blood gas analysis, airway management procedures and pulmonary rehabilitation techniques. A licensed RCP must also be knowledgeable regarding various assessment techniques and patient education models. These skills are used with neonatal, pediatric, and adult patients in acute, subacute, and home care settings.

To function effectively as a member of the multidisciplinary health care team, the RCP must have a sound understanding of the physiological, psychological, and cultural needs of the patient, the role of the various therapeutic interventions in the patient care plan, and development of broad-based skills to more effectively contribute to the overall care of the patient. Theory and laboratory experiences are provided prior to the student's entry into the clinical education phase of the program. This program can be completed in four calendar years. It includes three summer sessions. A sleep diagnostics option is also available.

**Accreditation**

The YSU respiratory care and polysomnography certificate programs are accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com).

Students with questions regarding accreditation of the YSU respiratory care or polysomnography programs can contact CoARC by mail at 1248 Harwood Road; Bedford TX 76021-4244 or by phone at 817-283-2835.

**Learning Outcomes**

The student learning outcomes for the major in respiratory care are as follows:

- Upon completion of the program, graduates will demonstrate the ability to comprehend, apply, and evaluate clinical information relevant to their roles as advanced-level respiratory therapists (cognitive domain).

- Upon completion of the program, graduates will demonstrate technical proficiency in all the skills necessary to fulfill their role as advanced-level respiratory therapists (psychomotor domain).

- Upon completion of the program, graduates will demonstrate professional behavior consistent with employer expectations as advanced-level respiratory therapists (affective domain).

**Respiratory Care Curriculum**

**YEAR 1**

**FALL SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
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<tbody>
<tr>
<td>MAT 1501</td>
<td>Medical Terminology .................3</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Survey of Math .....................3</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1........................3</td>
</tr>
<tr>
<td>CHEM 1505</td>
<td>Chemistry for Hlth. Prof. 1.........3</td>
</tr>
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<td></td>
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**SPRING SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1506</td>
<td>Chem for Hlth. Prof. 2................3</td>
</tr>
<tr>
<td>Elective</td>
<td>Societies &amp; Institutions................3</td>
</tr>
<tr>
<td>COMM 1545</td>
<td>Comm Theory &amp; Prac.....................3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2............................3</td>
</tr>
<tr>
<td>HSC 1568</td>
<td>Healthy Lifestyles....................3</td>
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**SUMMER SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>SOC 1550</td>
<td>Intro. to Sociology.................3</td>
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<tr>
<td>PSYC 1560</td>
<td>General Psychology................3</td>
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**YEAR 2**

**FALL SEMESTER**

<table>
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<tbody>
<tr>
<td>RESC 1529</td>
<td>Resp. Care Orientation................2</td>
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<tr>
<td>RESC 1531</td>
<td>Resp. Care Essentials................3</td>
</tr>
<tr>
<td>MATC 2605</td>
<td>Intro to Pharmacology................3</td>
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<tr>
<td>PHIL 2630</td>
<td>Critical Thinking....................3</td>
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<tr>
<td>CLTC 2687L</td>
<td>Microbiology for Hlth. Care........1</td>
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<tr>
<td>BIOL 1560</td>
<td>Microbiology for Hlth. Prof........2</td>
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**SPRING SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>RESC 1503</td>
<td>Resp. Procedures 1........................3</td>
</tr>
<tr>
<td>RESC 1520</td>
<td>Resp. Assessment 1........................3</td>
</tr>
</tbody>
</table>
PHYS 1506 Physics for Health Care ..........3
AHLT 3705 Pharmacotherapeutics ..........3

**SUMMER SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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</thead>
<tbody>
<tr>
<td>RESC 2620</td>
<td>Resp. Assessment 2 ..........3</td>
</tr>
<tr>
<td>RESC 2621</td>
<td>Cardiopulm. Disease ..........4</td>
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**YEAR 3**

**FALL SEMESTER**

<table>
<thead>
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<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>RESC 3706</td>
<td>Resp. Procedures 2 ..........3</td>
</tr>
<tr>
<td>RESC 3720</td>
<td>Mech. Ventilation 1 ..........3</td>
</tr>
<tr>
<td>AHLT 4806</td>
<td>Research Methods ..........3</td>
</tr>
<tr>
<td>AHLT 5803</td>
<td>Comp. H.C. Systems ..........4</td>
</tr>
<tr>
<td>Elective</td>
<td>Art/Lit Perspective ..........3</td>
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**SPRING SEMESTER**

<table>
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<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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</thead>
<tbody>
<tr>
<td>RESC 2699</td>
<td>Clinical Practice 1 ..........1</td>
</tr>
<tr>
<td>RESC 3708</td>
<td>Clinical Specialties ..........3</td>
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<tr>
<td>RESC 3709</td>
<td>Pediatric Resp. Care ..........4</td>
</tr>
<tr>
<td>RESC 3725</td>
<td>Mech. Ventilation 2 ..........3</td>
</tr>
<tr>
<td>RESC 3731</td>
<td>Respiratory Care Mgmt ..........2</td>
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**SUMMER SEMESTER**

<table>
<thead>
<tr>
<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>RESC 3740</td>
<td>Respiratory Clinics 2 ..........4</td>
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<tr>
<td>RESC 3750</td>
<td>Pulmonary Rehab. ..........2</td>
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**YEAR 4**

**FALL SEMESTER**

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</thead>
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<td>RESC 3765</td>
<td>Adv. R.C. Diagnostics ..........2</td>
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<tr>
<td>RESC 3741</td>
<td>Respiratory Clinics 3 ..........3</td>
</tr>
<tr>
<td>RESC 4831</td>
<td>Pulmonary Case Mgmt ..........3</td>
</tr>
<tr>
<td>AHLT 4812</td>
<td>ACLS ..........3</td>
</tr>
<tr>
<td>AHLT 4838</td>
<td>Resp Seminar 1 ..........3</td>
</tr>
<tr>
<td>(RESC 4846)</td>
<td>Sleep Diagnostics 1 ..........3</td>
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<tr>
<td>(RESC 4847)</td>
<td>Sleep Clinics 1 ..........3</td>
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<td>12 s.h.+ (4 sh)</td>
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**SPRING SEMESTER**

<table>
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<th>Courses</th>
<th>Semester Hrs.</th>
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<tbody>
<tr>
<td>RESC 4835</td>
<td>Resp. Clinics 4 ..........3</td>
</tr>
<tr>
<td>RESC 4842</td>
<td>Resp Seminar 2 ..........3</td>
</tr>
<tr>
<td>AHLT 4820</td>
<td>Directed Ind. Res. ..........2</td>
</tr>
<tr>
<td>Elective</td>
<td>(Art/Lit perspective) ..........3</td>
</tr>
<tr>
<td>Elective</td>
<td>(Soc/institutions) ..........3</td>
</tr>
<tr>
<td>(RESC 4848)</td>
<td>Sleep Diagnostics 2 ..........3</td>
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<tr>
<td>(RESC 4849)</td>
<td>Sleep Clinics 2 ..........3</td>
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<td></td>
<td>12 s.h.+ (4 sh)</td>
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</tbody>
</table>

Total Semester Hours ..........130

Sleep Diagnostics option ..........8

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**DEPARTMENT OF HUMAN ECOLOGY**

330-941-3344

Professors Elias (Chair), Pavia; Associate Professor Hawkins; Assistant Professors Draa, Gitimu, Kim, Leson, Mincher, Pohle-Krauza, Shah-Rowlands, Turel; Instructor Zetts.

The Department of Human Ecology offers nine degree programs. The pre-kindergarten, dietetic technician and hospitality management programs lead to the Associate of Applied Science degree and can be completed in two years. Baccalaureate programs in food and nutrition, (didactic program in dietetics and the coordinated program in dietetics), family and consumer studies, merchandising: fashion & interiors, hospitality management, each lead to the Bachelor of Science in Applied Science degree; and (in conjunction with the Beeghly College of Education) a bachelor’s program in family and consumer sciences education leads to the Bachelor of Science in Education degree with the teaching field licensure in family and consumer sciences.

Curriculum sheets for all programs are available at the department office Room 3044, Cushwa Hall.

**Learning Outcomes**

The student learning outcomes for the major in human ecology are as follows:

- Demonstrate appropriate customer and guest service practices, skills and behaviors required during customer involvement that contribute to customer satisfaction.
- Demonstrate the knowledge of fundamental principles of leadership and the ability to work with a group of people to formulate rational solutions to hospitality operational problems.
- Demonstrate quality food preparation and presentation skills, using appropriate health, safety, sanitation and environmental protection procedures in hospitality.
- Demonstrate the use and knowledge of current technologies in the hospitality industry. Explain key factors in the design, development and maintenance of the industry facilities and apply relevant technologies in ways that enhance organizational performance.
- Demonstrate the ability to market hospitality goods and services effectively and responsibly.
- Analyze legal, ethical, and socio-political considerations affecting organizations to make management decisions.
- Demonstrate use of accepted accounting practice and sound financial management.
FAMILY AND CONSUMER SCIENCES EDUCATION

The family and consumer sciences education program prepares students to teach in educational programs grade four through adult levels and meets the course requirements for the Family and Consumer Sciences Career/Technical Teaching License required to teach in Ohio’s schools. The four-year program includes 100 hours of supervised field work and one semester of student teaching in a secondary school. Graduates will receive a Bachelor of Science in Education degree and will be required to pass the Praxis II examination for teachers in order to receive a teaching license. This program is jointly administered by the Beeghly College of Education and the Department of Human Ecology. Academic advisors in the Beeghly College of Education as well as the teacher educator in the Department of Human Ecology should be consulted regularly.

Family and Consumer Sciences teaching field courses include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMEC 1550</td>
<td>Human Ecology Professions</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>FNUT 1512</td>
<td>Food Safety and Sanitation</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>MRCH 1506</td>
<td>Clothing Selection &amp; Image Development</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHLT 2692</td>
<td>Human Sexuality</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 1553</td>
<td>Food Science &amp; Mgmt. Principles</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 1553L</td>
<td>Food Science &amp; Mgmt. Principles Lab</td>
<td>1 s.h.</td>
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<tr>
<td>CHFM 3731</td>
<td>Individual &amp; Family Development</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CHFM 3750</td>
<td>Parent &amp; Professional Relationships (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSYC 3755</td>
<td>Child Development (P)</td>
<td>3 s.h.</td>
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<tr>
<td>PSYC 3756</td>
<td>Adolescent Development (P)</td>
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<tr>
<td>PSYC 3758</td>
<td>Lifespan Development (P)</td>
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</tr>
<tr>
<td>MRCH 3764</td>
<td>Family Housing and Technology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 3780</td>
<td>Consumer Economics T (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 4800</td>
<td>Teaching Family &amp; Consumer Sciences</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 4890</td>
<td>Communicating Contemp. Issues O(P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 4852</td>
<td>Family Resource Management (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 5893</td>
<td>Work and Family (P)</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

45 s.h.

FAMILY AND CONSUMER STUDIES

The family and consumer studies program is designed to provide an in-depth understanding of individuals and families across the life span and to prepare students to work in agencies serving children and families or a variety of businesses serving the needs and interests of individuals (of all ages), families, and consumers. Students can create a unique program that reflects their career interests or graduate school goals. Students find employment in a variety of community agencies and businesses related to their areas of study. This program prepares the student to attain CFCS (Certified in Family and Consumer Sciences) certification.

Learning Outcomes

Graduates in the family and consumer studies major will be able to:

- Use family science research and human systems theory to describe the internal dynamics of families and the interrelationships of individuals and families with their environments.
- Identify factors that influence human development across the life span.
- Apply appropriate technologies, critical-thinking, research methods, and communication skills to address significant family and consumer issues.
- Use concepts of resource development, management, and sustainability to evaluate individual, family, and community resource allocation practices.
- Analyze ethical questions that affect families and consumers.
- Relate to others with concern and respect for diversity of family forms, cultural variations among families, and individual differences.
- Follow professional and ethical standards in professional practice settings.
- Evaluate public policies that impact the well-being of individuals, families, consumers, and communities.
- Plan, implement, and evaluate educational programs serving children, families, and consumers.

Family and Consumer Studies Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1............................................3 s.h.</td>
<td></td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2............................................3 s.h.</td>
<td></td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GER</td>
<td>Artistic and Literary Perspectives</td>
<td>6 s.h.</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles 1........................................3 s.h.</td>
<td></td>
</tr>
<tr>
<td>SOC 1500</td>
<td>Intro to Sociology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSYC 3758</td>
<td>Life Span Development</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GER</td>
<td>Natural Science</td>
<td>7 s.h.</td>
</tr>
<tr>
<td>MATH 2623</td>
<td>Survey of Math</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GER</td>
<td>Electives............................................6 s.h.</td>
<td></td>
</tr>
<tr>
<td>FNUT 1551</td>
<td>Normal Nutrition</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CHFM 3731</td>
<td>Individual &amp; Family Development</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>MRCH 3764</td>
<td>Family Housing &amp; Technology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 1550</td>
<td>Human Ecology Professions</td>
<td>1 s.h.</td>
</tr>
</tbody>
</table>
**HMEC 3780** Consumer Economics.................. 3 s.h.
**HMEC 4835** Field Experience....................... 3 s.h.
**HMEC 4890** Communication of Contemporary Issues ........ 3 s.h.
**HMEC 4852** Family Resource Management.................. 3 s.h.
**PSYC 2617** Research Methods and Statistics.................. 4 s.h.

or

**FNUT 4802** Research in Dietetics .................. 2 s.h.
**HMEC 4876** Undergraduate Research .................. 3 s.h.

Electives to reach 124 total hours

**Family Studies Option**
**HMEC 5893** Work and Family .................................. 3 s.h.
**CHFM 3750** Parent/Professional Relationships .................. 3 s.h.
**PHLT 2692** Human Sexuality ................................ 3 s.h.
**PSYC 3755** Child Development ................................ 3 s.h.

Department Electives ........................................ 15 s.h.
Minor ....................................................................... 18 s.h.

**Consumer Studies Option**
**MRCH 3705** Fashion Textiles.................................. 3 s.h.
**MRCH 3730** Social Psychology of Clothing ................. 3 s.h.
**FNUT 1553** Food Science & Mgmt. Principles .................. 3 s.h.
**FNUT 1553L** Food Science & Mgmt. Principles Lab .......... 1 s.h.
**FNUT 1551** Normal Nutrition .................................. 3 s.h.

Department Electives ........................................ 17 s.h.
Minor ....................................................................... 18 s.h.

**FOOD AND NUTRITION/ DIETETICS**

**Dietetic Technician (DT)**

Assistant Professor Mincher (Program Coordinator).

Dietetic Technicians, Registered (DTRs), are trained in food and nutrition and are an integral part of health care and foodservice management teams. The associate degree course work for dietetic technicians includes a variety of classes in food and nutrition sciences, foodservice systems management and a range of general science courses. Dietetic Technicians, Registered work independently or in teams with registered dietitians in a variety of employment settings, including health care, business and industry, public health, foodservice and research.

Upon satisfactory completion of the DT program, graduates are issued a verification statement that confirms their eligibility to sit for the Commission on Dietetic Registration (CDR) examination for dietetic technicians. Successful completion of the exam allows the graduate to use “DTR” as the practice credential.

Most of the required courses can be applied to the B.S. in A.S. degree with a major in food and nutrition.

The associate degree program is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (120 South Riverside Plaza, Suite 2000, Chicago, Illinois, 1-800-877-1600, www.eatright.org).

**Learning Outcomes**

At the completion of the dietetic technician program, graduates will

- Be able to practice as competent dietetic technicians.
- Meet the workforce needs for DTRs in the Mahoning Valley.
- Practice a high degree of professionalism.

**Dietetic Technician Curriculum**

**FIRST YEAR**
**BIOL 1551/L** Anatomy & Physiology/ Lab .................. 4 s.h.
*HMEC 1550** Human Ecology Professions .................. 1 s.h.
*FNUT 1553** Food Science & Management Principles .................. 3 s.h.
*FNUT 1553/L** Food Science & Management Principles Lab .......... 1 s.h.
*FNUT 1551** Normal Nutrition .................................. 3 s.h.
*FNUT 1552** Nutrition Assessment Lab .......... 1 s.h.
**ENGL 1550** Writing 1 .................................. 3 s.h.
**BIOL 1552/L** Anatomy & Physiology/ Lab .................. 4 s.h.
*FNUT 1512** Food Safety & Sanitation .......... 1 s.h.
*FNUT 2612** Food Systems: Operation, Production and Service .......... 3 s.h.
*FNUT 2612/L** Food Systems: Operation, Production and Service Laboratory .......... 2 s.h.
**PSYC 1560** General Psychology .................. 3 s.h.

**SECOND YEAR**
**ENGL 1551** Writing 2 .................................. 3 s.h.
**CHEM 1505/L** Allied Health Chemistry/ Lab .................. 3 s.h.
**BIOL 1560/L** Microbiology/Health Profession/Lab .................. 3 s.h.
*FNUT 2603/L** Medical Nutrition/Therapy 1/Lab .......... 4 s.h.
**COUN 2650** Helping Skills for Human Ecology .................. 2 s.h.
**ACCT 2602** Financial Accounting .................. 3 s.h.
*FNUT 2610** Organization & Mgmt .................. 3 s.h.
*FNUT 2609L** Food Systems: Supervised Practice .................. 3 s.h.
*FNUT 2613/L** Nutritional Care Clinical Experience .................. 3 s.h.
**SOC 1500** Intro to Sociology .................. 3 s.h.
**CSIS 1514** Business Computer Systems .................. 3 s.h.
**CMST 1545** Communication Foundations .................. 3 s.h.
Didactic Program in Dietetics (DPD) Dietitian

Assistant Professor Rowlands (Program Coordinator).

This baccalaureate program is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (See “Dietetic Technician” for contact information).

Upon satisfactory completion of the DPD, students are issued a verification statement confirming eligibility to apply for a CADE accredited Dietetic Internship (DI) or pre-professional practice program.

Completion of the DI or an approved pre-professional practice program, establishes eligibility to sit for the Commission on Dietetic Registration (CDR) examination for dietitians. Successful completion of the examination brings the designation as a registered dietitian (R.D.).

Didactic Program in Dietetics (DPD) graduates may also take the registration examination for dietetic technicians and become Dietetic Technicians, Registered (DTR).

Learning Outcomes

- Achieve comprehension/competence in nutrition care process with specific emphasis on standardized nutrition diagnoses, i.e., use the nutrition care process to make decisions, identify nutrition-related problems, and determine and evaluate nutrition interventions, including medical nutrition therapy, disease prevention, and health promotion.
- Demonstrate understanding of dietetics evidence-based practice principles; locate, interpret, evaluate and use professional literature to make ethical evidence-based practice decisions.
- Demonstrate competence in food preparation and the modification and evaluation of recipes, menus, and food products for diverse groups.
- Be able to identify different health care delivery systems and current reimbursement issues, policies, and regulations on food and nutrition services.

Didactic Program in Dietetics, Bachelor of Science in Applied Science (Food and Nutrition)

GENERAL EDUCATION REQUIREMENTS

Assistant Professor Rowlands (Program Coordinator).

Basic Skills
- ENGL 1550 Writing 1.................................3 s.h.
- ENGL 1551 Writing 2 (P)........................3 s.h.
- CMST 1545 Communication foundations ..........3 s.h.
- MATH 2623 Survey of Mathematics ..........3 s.h.

MATH 2625 Math Literacy & Critical Reasoning ......................3 s.h.

Personal/Social Responsibility (PS)
- FNUT 1551 Normal Nutrition ..........................3 s.h.
- PSYC 1560 General Psychology ................3 s.h.

Artistic & Literary Perspectives (AL)
ELECTIVE .................................................3 s.h.
ELECTIVE .................................................3 s.h.

Societies & Institutions (SI)
- SOC 1500 Introduction to Sociology ........3 s.h.
- ELECTIVE .................................................3 s.h.
- ELECTIVE .................................................3 s.h.

Natural Science (NS)
- CHEM 1505/L Allied Health Chemistry 1 (P) ..........3 s.h.
- BIOL 1551/L Phys. & Anatomy of Humans 1 ..........4 s.h.
- BIOL 1552/L Phys & Anatomy of Humans 2 (P) ..........4 s.h.
- BIOL 1560 Microbiology/Health Prof ..........2 s.h.
- BIOL 1560L Microbiology/Health Prof. Lab ........1 s.h.

Selected Topics (ST)
SOC 3745 Soc of Health, Illness & Healthcare ..........3 s.h.

ELECTIVE .................................................3 s.h.

ADDITIONAL PROGRAM REQUIREMENTS

- CSIS 1514 Business Computer Systems .................3 s.h.
- ACCT 2602 Financial Accounting (P) ........3 s.h.
- COUN 2651 Foundations of Helping Skills for Human Ecology ........2 s.h.
- CHEM 3706/L Fundamentals Organic & Biochemistry ........4 s.h.
- MGT 3725 Fundamentals of Management ...............3 s.h.

MAJOR COURSES

Final grade of C or better required in all major courses. Courses cannot be taken Credit/No Credit.

- HMEC 1550 Human Ecology Professions ........1 s.h.
- FNUT 155 Normal Nutrition ..........................3 s.h.
- FNUT 1552L Nutr Assessmt. Lab (P) ..............1 s.h.
- FNUT 1553 Food Science & Mgmt. Principles ..........3 s.h.
**Suggested Coursework Plan**

**FIRST YEAR—FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550 Writing 1</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 1550 Human Ecology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 1553L Food Science &amp; Mgmt. Principles Lab (P)</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>FNUT 2603 Medical Nutrition Therapy 1 (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 2603L Medical Nutrition Therapy 1 Lab (P)</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>FNUT 2612 Food Systems (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 2612L Food Systems Lab (P)</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>CHFM 3731 Individual &amp; Family Develop. (P, W)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 3759 Advanced Nutrition (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 3760 Medical Nutrition Therapy 2 (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 3761 Sci. of Nutr. In Exercise</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 3763/L Food and Culture</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 4802 Research Methods in Dietetics (P)</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>FNUT 4810 Experimental Foods (P)</td>
<td>2 s.h.</td>
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<tr>
<td>FNUT 4810L Experimental Foods Lab (P)</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>FNUT 4858 Foodservice Systems Mgt. (P)</td>
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</tr>
<tr>
<td>FNUT 4860 Medical Nutrition Therapy 3 (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 4890 Comm. Contemporary Issues (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 4895 DPD Capstone (CA)</td>
<td>3 s.h.</td>
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<tr>
<td>FNUT 5872 Maternal &amp; Child Nutr. (P)</td>
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<tr>
<td>FNUT 5873 Nutrition &amp; Aging (P)</td>
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<td>Total Minimum Hours for Degree</td>
<td>124 s.h.</td>
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**Suggested Non-GER Electives**

<table>
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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>MATC 1501 Medical Terminology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 1512 Food Safety &amp; Sanitation</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>PUBH 1531 Fundamentals of Public Health</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GEOG 2626 World Geography</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ANTH 3705 Cultural Anthropology</td>
<td>3 s.h.</td>
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</tbody>
</table>

**Elective Information:**

Credits for the following developmental courses do not count toward degree: ENGL 1539, ENGL 1540, MATH 1500, MATH 1510

**Minimum upper-division hours**

(3700 or higher) = 48 total hours for degree = 124

Codes: (P) prerequisite, see catalog; (CA) capstone

- Indicates course prerequisites for the coordinated program in dietetics. CPD applications may be submitted after earning 63 credit hours including the CPD prerequisites named above. Application due date: Feb 1 of every year to Dr. Sue Leson.

**BSAS Food & Nutrition – Didactic Program in Dietetics (128 S.H.)**

**Suggested Coursework Plan**

**FIRST YEAR—FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550 Writing 1</td>
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</tr>
<tr>
<td>HMEC 1550 Human Ecology</td>
<td>3 s.h.</td>
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**SECOND YEAR—FALL SEMESTER**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CHEM 1505/L Allied Health Chemistry w/Lab</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>COUN 2650 Foundations of Helping Skills</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SOC 1500 Introduction to Sociology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>BIOL 1560/L Microbiology/Lab</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 2603 Medical Nutrition Therapy 1</td>
<td>3 s.h.</td>
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<tr>
<td>FNUT 2603/L Medical Nutrition Therapy 1 Lab</td>
<td>1 s.h.</td>
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<td>Total</td>
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**SECOND YEAR—SPRING SEMESTER**

<table>
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<th>Course</th>
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<td>CSIS 1514 Business Computer Systems</td>
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</tr>
<tr>
<td>CMST 1545 Communication</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ACCT 2602 Financial Accounting</td>
<td>3 s.h.</td>
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<tr>
<td>MATH 2623 Survey of Math</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CHEM 3706/L Fundamentals of Organic &amp; Biochemistry/Lab</td>
<td>4 s.h. (S)</td>
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<td>16</td>
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**THIRD YEAR—FALL SEMESTER**

<table>
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<th>Course</th>
<th>Credits</th>
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<tr>
<td>CHFM 3731 Individual &amp; Family Development</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 3759 Advanced Nutrition</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>FNUT 3760 Med Nutrition Therapy 2</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Artistic &amp; Literary Perspective</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Societies &amp; Institutions</td>
<td>3 s.h.</td>
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<td>Total</td>
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**THIRD YEAR—SPRING SEMESTER**

<table>
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<th>Course</th>
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<tbody>
<tr>
<td>MGT 3725 Fundamentals of Management</td>
<td>3 s.h.</td>
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<tr>
<td>FNUT 4810 Experimental Foods</td>
<td>2 s.h.</td>
</tr>
<tr>
<td>FNUT 4810L Experimental Foods Lab</td>
<td>1 s.h.</td>
</tr>
<tr>
<td>FNUT 4860 Medical Nutrition Therapy 3</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Artistic &amp; Literary Perspective</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Selected topics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Total</td>
<td>15</td>
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</tbody>
</table>
FOURTH YEAR—FALL SEMESTER
FNUT 4858 Foodservice System Management...............................4 s.h.
FNUT 4874 Community Nutrition & Wellness.........3 s.h. (F)
FNUT 4802 Research Methods..............................2 s.h. (F)
HMEC 4890 Communication of Contemp. Issues........3 s.h.(F,S)
Societies & Institutions..................................3 s.h.
Total............................................................................15

FOURTH YEAR—SPRING SEMESTER
FNUT 3761 Sci of Nutrition in Exercise......................3 s.h. (S)
FNUT 3763 Food and Culture/L ......................3 s.h. (S)
FNUT 4895 DPD Capstone.................................3 s.h. (S)
FNUT 5872 Maternal & Child Nutr. (P, W)..............2 s.h. (S)
FNUT 5873 Nutrition & Aging. (P, W) 2 s.h. (S)
Other Electives .....................................................3 s.h.
Total.............................................................................16

F – Offered in the fall semester
S – Offered in the spring semester
X – Offered in the summer semester

Coordinated Program in Dietetics (CPD) Dietitian (Registration Eligible)

Assistant Professor Leson (Coordinator).

This program, which prepares students for general dietetic practice with a concentration in community wellness, includes supervised practice as well as didactic study, and is accredited by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (See “Dietetic Technician” for contact information).

Admission to the CPD is restricted since only 12 students can be accommodated. Satisfactory completion of a minimum of 63 semester hours (to qualify for junior status) is required before the student begins the program. Detailed information regarding criteria and procedures is available from the Department of Human Ecology. Students are accepted to the CPD in spring, and start the program during fall semester. The current closing date for applications is February 15 for the following fall semester.

Each student spends a minimum of 1200 hours in approved clinical sites during the junior and senior years of the CPD. Upon satisfactory completion of the CPD, graduates are issued a verification statement that confirms their eligibility to sit for the Commission on Dietetic Registration (CDR) registration examination for dietitians. CPD graduates who successfully write the registration examination are entitled to use the R.D. credential to signify professional competence.

Learning Outcomes
At the completion of the coordinated program in dietetics, graduates will be able to

- Communicate effectively.
- Effectively integrate biochemical concepts into dietetics practice.
- Effectively integrate physiological concepts into dietetics practice.
- Effectively apply theory from the social sciences to dietetics practice.
- Effectively present results of research study.
- Effectively apply concepts from food, nutrition, management, and health care systems to dietetics practice.
- Practice effectively as members of an interdisciplinary team.
- Demonstrate competency in clinical dietetics practice.
- Demonstrate competency in foodservice management practice.
- Demonstrate competency in community nutrition practice.

Coursework Plan

THIRD YEAR—FALL SEMESTER
CHFM 3731 Individual & Family Development....................3 s.h.
FNUT 3759 Advanced Nutrition.............................3 s.h.
FNUT 3760 Med Nutr Therapy 2............................3 s.h.
FNUT 3760R Med Nutr Therapy 2 Recitation...............2 s.h.
FNUT 3760L Medical Nutrition Therapy 2 Lab..............2 s.h.
FNUT 4802 Research Methods in Dietetics...............................2 s.h.
Societies & Institutions..................................3 s.h.
Total.............................................................................18

THIRD YEAR—SPRING SEMESTER
MGT 3725 Fundamentals of Management..................3 s.h.
FNUT 3761 Science of Nutrition in Exercise.................3 s.h.
FNUT 4802L Research Methods in Dietetics/Lab.....................1 s.h.
FNUT 4810 Experimental Foods............................2 s.h.
FNUT 4810L Experimental Foods Lab..........................1 s.h.
FNUT 4860 Med Nutr Therapy 3..............................3 s.h.
FNUT 4860L Med Nutr Therapy 3 Lab........................3 s.h.
Total.............................................................................16

FOURTH YEAR—FALL SEMESTER
FNUT 4858 Foodservice System Management......................4 s.h.
FNUT 4858L Foodservice Sys. Mgmt. Lab..............................3 s.h.
FNUT 4874 Community Nutrition & Wellness.............3 s.h.
FNUT 4874L Community Nutrition & Wellness Lab...........3 s.h.
## Artistic & Literary Perspectives ........................................3 s.h.
Total......................................................................................16

### FOURTH YEAR—SPRING SEMESTER
- FNUT 4872L Maternal & Child Lab ..................2 s.h.
- FNUT 4873L Nutrition & Aging Lab ..............2 s.h.
- HMEC 4890 Communication of Contemporary Issues ..........3 s.h.
- FNUT 5872 Maternal & Child Nutrition .......2 s.h.
- FNUT 5873 Nutrition and Aging ..................2 s.h.
- FNUT 3763/L Food and Culture ....................3 s.h.

Total......................................................................................14

### FOURTH YEAR—SUMMER SEMESTER
- FNUT 4885 Practicum in Dietetics ..............5 s.h.

Total......................................................................................5

## HOSPITALITY MANAGEMENT

The Hospitality Management Program provides students with the knowledge and skills needed to be successful and competent in this fast-growing field not only in the United States, but throughout the world.

Students may earn an associate degree and/or a bachelor’s degree with a major in hospitality management. The Associate of Applied Science degree (AAS) program provides experiences in all phases of hospitality management. The Bachelor of Science in Applied Science Degree (BS in AS) program encompasses all course work in the AAS program and exposes students to advanced management concepts in lodging, food and beverage, travel and tourism, or marketing and sales management.

### Learning Outcomes

At the completion of the hospitality management program, graduates will be able to

- Demonstrate health, safety, sanitation, and environmental protection procedures used in food, lodging, and hospitality industries.
- Use current technologies of the food, lodging, and hospitality industries.
- Demonstrate quality food preparation, presentation, and service skills.
- Demonstrate appropriate customer and guest service practices.
- Explain key factors in the design, development, and maintenance of industry facilities.
- Apply principles of organizational theory and interpersonal communications in the management of human resources.
- Use critical thinking, including quantitative reasoning, to make management decisions.
- Market hospitality goods and services effectively and responsibly.
- Apply principles of sound financial management, including accepted accounting practices.
- Analyze legal, ethical, and social-political considerations affecting organizations.

## Associate Degree Curriculum

### General Education Requirements

#### Basic Skills

- ENGL 1550 Writing 1 .................................................. 3 s.h.
- ENGL 1551 Writing 2 .................................................. 3 s.h.
- CMST 1545 Communication Foundations ...........3 s.h.
- Math 2623 Survey of Math ...........................................3 s.h.
- CSIS 1514 Business Computer Systems .............3 s.h.
- MGT 2604 Legal Environment of Business .............3 s.h.
- FNUT 1512 Food Safety & Sanitation ..................1 s.h.
- FNUT 1543 Personal Nutrition ..................................1 s.h.
- HMEC 1550 Human Ecology Professions ...............1 s.h.
- FNUT 1553 Food Science & Management Principles ..........3 s.h.
- FNUT 1553L Food Science Lab ..........................2 s.h.
- HMGT 2603 Hospitality Managerial Accounting 1 (P) ..................4 s.h.
- HMGT 2634 Hospitality Mangement Information Systems ..........3 s.h.
- *HMGT 2691 Hospitality Cooperative Work Experience (P) .................3 s.h.
- HMGT 3719 Hospitality Facilities Management (P) .........4 s.h.
- HMGT 3745 Hospitality Marketing (P) ...................4 s.h.

#### Other requirements

- CSIS 1514 Business Computer Systems .............3 s.h.
- MGT 2604 Legal Environment of Business .............3 s.h.
- FNUT 2610 Organization & Management ..........3 s.h.
- *MGT 3725 Fund. of Management ......................3 s.h.
- *MKTG 3703 Marketing Concepts and Practice ..........3 s.h.

#### Major Courses

Must have C or better, courses cannot be taken Credit/No Credit.

- HMGT 1500 Intro. to Hospitality Industry ..........3 s.h.
- FNUT 1512 Food Safety & Sanitation ..............1 s.h.
- FNUT 1543 Personal Nutrition ..........................1 s.h.
- HMEC 1550 Human Ecology Professions .........1 s.h.
- FNUT 1553 Food Science & Management Principles ..........3 s.h.
- FNUT 1553L Food Science Lab ..........................1 s.h.
- HMGT 2603 Hospitality Managerial Accounting 1 (P) ..................4 s.h.
- HMGT 2634 Hospitality Mangement Information Systems ..........3 s.h.
- *HMGT 2691 Hospitality Cooperative Work Experience (P) .................3 s.h.
- HMGT 3719 Hospitality Facilities Management (P) .........4 s.h.
- HMGT 3745 Hospitality Marketing (P) ...................4 s.h.

#### Concentrations

- FNUT 2612 Food Systems ................................3 s.h.
- FNUT 2612L Food Systems Lab ............................2 s.h.
- HMGT 4846 Events Mgmt. ................................3 s.h.

Credits for the following developmental courses do not count toward degree: ENGL 1539, 1540, MATH 1500, 1501.


Codes: *Permit required, see advisor; (P) prerequisite, see catalog. Student must sign up for permit prior to registration.

Some courses offered only once a year; see your advisor for proper prerequisites and sequence of courses. This curriculum articulates perfectly with
the Bachelor of Science program in Applied Science in Hospitality Management. See your advisor regarding prerequisites for ACCT, MGT, and MKTG courses.

Course Plan – AAS Hospitality Management Event Management

**YEAR 1 — FALL SEMESTER**

- **HMGT 1500** Intro. To the Hospitality Industry ........................................... 3 s.h.
- **ENGL 1550** Writing 1 .................................................................................. 3 s.h.
- **HMEC 1550** Human Ecology Professions .............................................. 1 s.h.
- **FNUT 1553** Food Science & Mgmt. Principles ........................................... 3 s.h.
- **FNUT 1553L** Food Science/Mgmt. Principles Lab ..................................... 1 s.h.
- **FNUT 1512** Food Safety & Sanitation ......................................................... 1 s.h.
- **Math 2623** Survey of Math ......................................................................... 3 s.h.
- **Societies & Institutions Elective** ................................................................. 3 s.h.

**Total** ........................................................................................................ 18 s.h.

**YEAR 1 — SPRING SEMESTER**

- **FNUT 2610 or MGT 3725** Organization & Mgmt ......................................... 3 s.h.
- **FNUT 1543** Personal Nutrition ...................................................................... 1 s.h.
- **ENGL 1551** Writing 2 .................................................................................. 3 s.h.
- **FNUT 2612** Food Systems .......................................................................... 3 s.h.
- **FNUT 2612L** Food Systems Lab ................................................................. 2 s.h.
- **MKTG 3703** Marketing Concepts & Practice ............................................ 3 s.h.
- **Artistic & Literary Perspective Elective** ..................................................... 3 s.h.

**Total** ........................................................................................................ 18 s.h.

**YEAR 2 — FALL SEMESTER**

- **HMGT 2603** Hospitality Manager Accounting 1 ......................................... 4 s.h.
- **CSIS 1514** Business Computer Systems .................................................. 3 s.h.
- **HMGT 3719** Facilities Management .......................................................... 4 s.h.
- **HMGT 3745** Hospitality Marketing ............................................................ 4 s.h.

**Total** ........................................................................................................ 15 s.h.

**YEAR 2 — SPRING SEMESTER**

- **CMST 1545** Communication Foundations ............................................... 3 s.h.
- **MGT 2604** Legal Environment of Business ............................................. 3 s.h.
- **HMGT 2634** Hospitality MIS ................................................................. 3 s.h.
- **HMGT 4846** Event Management ................................................................ 3 s.h.
- **HMGT 2691** Hospitality Cooperative Work Exper. ............................... 3 s.h.
- **Personal/Social (PS) Elective** .................................................................. 3 s.h.

**Total** ........................................................................................................ 18 s.h.

**Total Program Hours** ............................................................................. 69 s.h.

Course Plan – AAS Hospitality Management Restaurant & Foodservice

**YEAR 1 — FALL SEMESTER**

- **HMGT 1500** Intro. To the Hospitality Industry ........................................... 3 s.h.
- **ENGL 1550** Writing 1 .................................................................................. 3 s.h.
- **HMEC 1550** Human Ecology Professions .............................................. 1 s.h.

**Total** ........................................................................................................ 15 s.h.

**YEAR 1 — SPRING SEMESTER**

- **FNUT 2610 or MGT 3725** Organization & Mgmt ......................................... 3 s.h.
- **FNUT 1543** Personal Nutrition ...................................................................... 1 s.h.
- **ENGL 1551** Writing 2 .................................................................................. 3 s.h.

**Total** ........................................................................................................ 3 s.h.
The merchandising: fashion and interiors program prepares students for a broad range of careers related to the fashion and interiors industries. Merchandising is a specialized management function within these industries. Graduates find employment in manufacturing, marketing, and distribution of apparel, accessories, personal care products, home furnishings, home interiors goods, and other housing-related products. In both fashion and interiors merchandising positions, planning, development, and timing are the main activities. Some of the possible work activities merchandising graduates may find themselves engaged in are: attending market functions where styles and trends in the industry are showcased; making seasonal visits to wholesale markets, e.g., New York, Chicago, Los Angeles, High Point and Atlanta; managing the major functions of
merchandising, i.e., analyzing influences on market trends, managing the movement of merchandise from concept to production to distribution; researching and developing new products; planning and designing visual displays of merchandise; maintaining a showroom in a market center; or selling to clientele at trade shows or at their own location.

Merchandising students complete an interdisciplinary program of major courses in merchandising, human ecology and business as well as supporting academic courses in economics, communication, computers, and the sciences. Students may choose a concentrated study in either fashion or interiors. Students may also earn a minor, take additional courses in marketing or another academic area related to their career choice, or they may take additional courses in merchandising and human ecology. Students may study abroad or in New York City. New York City study options include the Fashion Institute of Technology, the Marist College internship program or the Kent State University Studio Experience.

Fashion Institute of Technology Visiting-Student Option

Students may attend The Fashion Institute of Technology in New York City (one of the State Universities of New York) for one year as a visiting student. They may take courses to complement their studies at YSU or complete a program that leads to a career choice, or they may take additional courses in merchandising and human ecology. Students must study abroad or in New York City. For more information on FIT programs, visit the FIT web site:

http://www.fitnyc.edu

Learning Outcomes

At the completion of the merchandising/fashion and interiors program, graduates will be able to

- Analyze and appropriately apply principles of merchandising and product development to solve manufacturing and marketing problems.
- Interpret needs and wants of target customers.
- Develop a financially sound product line.
- Integrate and apply merchandising, principles in workplace settings.

- Evaluate product quality and serviceability.

Fashion Merchandising Curriculum

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
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</tr>
<tr>
<td>PSYC 1560</td>
<td>General Psychology</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>MRCH 1506</td>
<td>Clothing Selection/Image</td>
<td>3 s.h.</td>
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<td>MATH 2623</td>
<td>Survey of Mathematics</td>
<td>3 s.h.</td>
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<tr>
<td>STEM 2600</td>
<td>Exploration in Science</td>
<td>4 s.h.</td>
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<tr>
<td>ENGL 1551</td>
<td>Writing 2 (P)</td>
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</tr>
<tr>
<td>SOC 1500</td>
<td>Introduction to Sociology</td>
<td>3 s.h.</td>
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<td>HMEC 1550</td>
<td>Human Ecology Professions</td>
<td>1 s.h.</td>
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<tr>
<td>MRCH 1508</td>
<td>Apparel Production</td>
<td>3 s.h.</td>
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<td>CMST 1545</td>
<td>Communication Foundations</td>
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<td>CSIS 1514</td>
<td>Business Computer Systems</td>
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**SECOND YEAR**

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<tr>
<td>FNUT 1543</td>
<td>Personal Nutrition</td>
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</tr>
<tr>
<td>MRCH 2625</td>
<td>The World of Fashion</td>
<td>3 s.h.</td>
</tr>
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<td>MRCH 1510</td>
<td>Apparel Evaluation</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ECON 2610</td>
<td>Principles of Economics (P)</td>
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<td>PHIL 2625</td>
<td>Introduction to Professional Ethics</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART 1540</td>
<td>World of Art</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GER</td>
<td>Societies and Institutions</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>MGT 2604</td>
<td>Legal Environment of Business</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>GER</td>
<td>Artistic and Literary Perspectives</td>
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</tr>
<tr>
<td>GER</td>
<td>Natural Science or Artistic and Literary Perspectives</td>
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<tr>
<td>GER</td>
<td>Natural Science</td>
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**THIRD YEAR**

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<tr>
<td>MRCH 3760</td>
<td>Visual Merchandising (P)</td>
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</tr>
<tr>
<td>MKTG 3703</td>
<td>Marketing Concepts/Practices (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CHFM 3731</td>
<td>Individual &amp; Family</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>MRCH 3705</td>
<td>Fashion Textiles (P)</td>
<td>3 s.h.</td>
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<td>Electives*</td>
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<tr>
<td>MRCH 3730</td>
<td>Social/Psychology of Clothing (P)</td>
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</tr>
<tr>
<td>MRCH 3742</td>
<td>Applied Textile Design (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>MGT 3725</td>
<td>Fundamentals of Management (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>HMEC 3780</td>
<td>Consumer Economics (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Electives*</td>
<td></td>
<td>3 s.h.</td>
</tr>
<tr>
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**FOURTH YEAR**

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<tr>
<td>MKTG 3713</td>
<td>Retail Buying (P)</td>
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<tr>
<td>MRCH 4877</td>
<td>History of Fashion (P)</td>
<td>3 s.h.</td>
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<tr>
<td>HMEC 4890</td>
<td>Communicating Cont. Issues (P)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Electives*</td>
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<tr>
<td>HMEC 4835</td>
<td>Field Experience</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>MRCH 4880</td>
<td>Merchandising Management CA (P)</td>
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</tbody>
</table>
### Interiors Merchandising Curriculum

#### FIRST YEAR
- **ENGL 1550** Writing 1 ............................................ 3 s.h.
- **PSYC 1560** General Psychology .......................... 3 s.h.
- **ART 1501** Fundamentals of Design .................... 3 s.h.
- **STEM 2600** Exploration in Science ..................... 4 s.h.
- **MATH 2623** Survey of Mathematics ..................... 3 s.h.
- **ENGL 1551** Writing 2 (P) ..................................... 3 s.h.
- **SOC 1500** Introduction to Sociology .................. 3 s.h.
- **HMEC 1550** Human Ecology Professions ............. 1 s.h.
- **MRCH 2661** Fundamentals of Interior Design (P) .... 3 s.h.
- **CMST 1545** Communication Foundations ............. 3 s.h.
- **ART 1501** Fundamentals of Design .................... 3 s.h.
- **MRCH 2662** Computer App.-Housing/Interiors .......... 3 s.h.
- **MRCH 2663** Material and Methods (P) ............... 3 s.h.
- **GER** Artistic and Literary Perspectives ................. 3 s.h.

#### SECOND YEAR
- **FNUT 1543** Personal Nutrition ............................ 1 s.h.
- **ECON 2610** Principles of Economics 1 .................. 3 s.h.
- **PHIL 2625** Introduction to Professional Ethics .......... 3 s.h.
- **ART 1540** World of Art .................................... 3 s.h.
- **NS or AL Elective** ........................................... 3 s.h.
- **NS elective** .................................................. 3 s.h.
- **MKTG 3709** Retail Marketing (P) ......................... 3 s.h.
- **HMEC 4835** Field Experience ............................. 3 s.h.
- **MRCH 4880** Merchandising Management ................ 3 s.h.
- **MRCH 4879** History-Furnishings/Interiors (P) ......... 3 s.h.
- **CHFM 3731** Individual & Family Dev. (P) ............. 3 s.h.
- **HMEC 3780** Consumer Economics (P) .................. 3 s.h.
- **Electives** ..................................................... 3 s.h.

#### THIRD YEAR
- **MKTG 3703** Marketing Concepts/Practices (P) ....... 4 s.h.
- **MRCH 3705** Fashion Textiles (P) ......................... 3 s.h.
- **MGT 3725** Fundamentals of Management (P) ....... 3 s.h.
- **Electives** ..................................................... 3 s.h.
- **MRCH 3742** Applied Textile Design (P) ............. 3 s.h.
- **CHFM 3731** Individual & Family Dev. (P) ............. 3 s.h.
- **HMEC 3780** Consumer Economics (P) .................. 3 s.h.
- **Electives** ..................................................... 6 s.h.

#### FOURTH YEAR
- **HMEC 4890** Communicating Cont. Issues O (P) ....... 3 s.h.
- **MRCH 3764** Family Housing & Technology (P) ....... 3 s.h.
**General Education Courses**

The Department offers one course that satisfies general education requirements. HPES 1500—Physical Activity Core Concepts may be applied in the Personal and Social Responsibility domain. Please note that in order for HPES 1500 to count in the PS domain students must take two HPES activity courses in addition to HPES 1500. These courses do not have to be taken concurrently.

**Elective Courses**

Activity classes may count for general education credit and may count as elective credit. Please refer to the paragraph above for general education information.

Activity classes may count for general education credit and may count as elective credit. Please refer to the paragraph above for general education information. For a complete listing of activity courses, see the activity course listings in the online Bulletin.

It is suggested that all students confer with their physician prior to enrolling in activity classes. Students with physical disabilities are urged to see their physician, or the nurse in the Student Health Services office, to review activities which might be appropriate. Most activity classes can be adapted to one's personal abilities and students are encouraged to discuss this with the instructor. Students with disabilities are encouraged to focus on their physical abilities and consider the social and physical benefits that accrue from physical activity. If a disabled student finds only one appropriate activity class, permission may be requested from the department chair (Beeghly Center 307) to take the same class twice for credit.

Veterans who have served at least one full year can receive physical education credit for service. This is detailed under the heading "Veterans" in the Undergraduate Bulletin.

Members of the men’s or women’s varsity teams may receive physical activity credit through enrollment in HPES 1549, varsity competition. This class may be repeated one time per year for each sport in which an athlete is participating.

Students must provide their own clothing for activity classes, and this attire must be appropriate to the activity. In addition, students who wish to use the locker facilities, must bring their own lock and towel for use during activity classes. Most of the other equipment for physical education classes is supplied by the department (an asterisk beside the catalog number indicates a lab fee will be charged).

### DEPARTMENT OF HUMAN PERFORMANCE AND EXERCISE SCIENCE

**330-941-3654**

*Professors Bosso, Matanin, Walker (Chair); Associate Professors Mullins, Pintar; Assistant Professors Latess, Tessmer.*

The goals of the Department of Human Performance and Exercise Science are to improve motor performance, develop health related lifetime fitness for the university community, and prepare students for related professions. These goals are achieved by promoting and integrating scientific research related to human performance and exercise science as presented through focused programs of study and outreach services.

Students interested in majoring in exercise science, physical education, or health education should consult with an advisor in the Department of Human Performance and Exercise Science.

**Elective Courses**

Activity classes may count for general education credit and may count as elective credit. Please refer to the paragraph above for general education information.

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### EXERCISE SCIENCE—B.S. IN APPLIED SCIENCE

The Department of Human Performance and Exercise Science offers a Bachelor of Science in Applied Science degree with a major in exercise science. This program prepares students for certification through the American College of Sports Medicine (ACSM) as health/fitness instructors. As such, graduates will be able to design safe and effective exercise prescriptions, and conduct individual exercise programs, fitness testing, and health education for low-to moderate-risk individuals, individuals with controlled diseases, and individuals in special populations (e.g. pregnancy, hypertension, diabetes mellitus). Graduates are employed in a wide variety
of settings that include: public and private fitness clubs, hospital based wellness programs, corporate wellness programs, strength and conditioning, and clinical rehabilitation programs such as cardiac rehabilitation. In addition, the program serves as a strong foundation for students wishing to pursue advanced degrees in the field of exercise science or enter professional schools such as physical or occupational therapy.

Learning Outcomes
The student learning outcomes for the B.S.A.S. in exercise science are as follows:

• Students will accurately perform fitness evaluations for both healthy and clinical populations.
• Students will demonstrate the ability to teach fitness skills.
• Students will demonstrate the ability to develop an exercise prescription tailored to healthy and clinical populations.
• Students will display professional knowledge, skills and abilities during their internship.

Admission
Application forms and other information for formal admittance to the Department of Human Performance and Exercise Science may be obtained in the department office, Room 307, Beeghly Center. This program can be completed in eight semesters if students average 16 hours per semester.

For individual semester advisement, including general education, minor, and additional requirements, see assigned departmental advisor.

The following are HPES courses required in the major for this degree:

HPES: 1559, 1560, 1595, 2605, 2625, 3700, 3710, 3710L, 3720, 3720L, 3730, 3740, 3760, 4810, 4820, and 4880.

PHYSICAL EDUCATION—B.S. IN EDUCATION

Professional Teacher Education Program
Youngstown State University is fully approved by the Ohio State Department of Education for the preparation of physical education teachers for public schools. The degree of Bachelor of Science in Education with a major in physical education leads to a license in multi-age education.

Those students seeking upper-division admission in physical education must have achieved Beeghly College of Education upper-division status and must supply the Department with written verification of this status. For more information concerning this requirement and for formal admission to the Department of Human Performance and Exercise Science please contact the main office in Room 307, Beeghly Center.

Learning Outcomes
The student learning outcomes for the B.S. in Education in physical education are as follows:

• Students will demonstrate an understanding of physical education content and disciplinary concepts related to the development of a physically educated person.
• Students will demonstrate an understanding of how individuals learn and develop, and how to provide opportunities that support physical, cognitive, social, and emotional development.
• Students will demonstrate an understanding of individual and group motivation and behavior to create a safe learning environment that encourages positive social interaction, active engagement in learning, and self-motivation.
• Students will plan and implement a variety of developmentally appropriate instructional strategies to develop physically educated individuals.

Curriculum Guide
For individual semester advisement, including general education requirements, see assigned departmental advisor. It is also recommended that, once students have applied for and been accepted to upper division in the Beeghly College of Education, they see an advisor in the BCOE for individual advisement related to education courses. This program can be completed in nine semesters if students average 15 hours per semester.

The following are HPES and Beeghly College of Education (BCOE) courses required in the major for this degree:

HPES: 1506, 1567, 1573, 1574, 1575, 1577, 1579, 1589, 1595, 2605, 2610, 2628, 2661, 2670, 3767, 3771, 3780, 4808, 4851, 4876, 4878, 4895, 4899, 4899L.

PHYSICAL EDUCATION—BACHELOR OF ARTS
This program is intended for students seeking careers in recreation or sport related commercial fields. The Bachelor of Arts degree does not offer teacher licensure. For teacher licensure information please see the B.S. in Education section above.

Learning Outcomes
The student learning outcomes for the A.B. in physical education are as follows:

• Students will demonstrate an understanding of physical education content and disciplinary concepts related to the development of a physically educated person.
• Students will demonstrate an ability to facilitate competent motor skill performance.
• Students will demonstrate the ability to successfully intern with an organization, other than a public or private school, associated in some way with the field of physical education.

Admission
Application forms and other information for formal admittance to the Department of Human Performance and Exercise Science may be obtained in the department office, Room 307, Beeghly Center. This program can be completed in eight semesters if students average 16 hours per semester.

For individual semester advisement, including general education and minor requirements, see assigned departmental advisor.

The following are HPES courses required in the major for this degree:
HPES: 1559, 1560, 1577, 1589, 1595, 2605, 2610, 2618, 2661, 2670, 3766, 3767, 4808, 4851, 4884, 4889, 4899L, 4895.

SCHOOL HEALTH EDUCATION – B.S. IN EDUCATION

Professional Teacher Education Program
Youngstown State University is fully approved by the Ohio State Department of Education for the preparation of health education teachers for public schools. The degree of Bachelor of Science in Education with a major in health education leads to a license in multi-age education.

Those students seeking upper-division admission in health education must have achieved Beeghly College of Education upper-division status and must supply the Department with written verification of this status. For more information concerning this requirement and for formal admission to the Department of Human Performance and Exercise Science, please contact the main office in Room 307, Beeghly Center.

Learning outcomes
The student learning outcomes for the B.S. in Education in health education are as follows:
• The health education teacher candidate will demonstrate proficiency in health education content by passing the national PRAXIS II 20550 exam.
• The health education teacher candidate will demonstrate competence in developing valid pre and post tests, and analyzing them for use in instructional planning and implementation.
• The health education teacher candidate will demonstrate competence in teaching health by receiving a score of at least 2.0 in all domains during final student teacher evaluations.

Curriculum Guide
For individual semester advisement, including general education requirements, see assigned departmental advisor. It is also recommended that students see an advisor in the BCOE for individual advisement related to education courses. This program can be completed in nine semesters if students average 16 hours per semester.

The following are HPES, Department of Health Professions, and Beeghly College of Education (BCOE) courses required in the major for this degree:
HPES: 3702, 3715, 3716. Health Professions: PHLT 1568, 2692, 3731, 3757, 3791; AHLT 4808.

BCOE: FOUN 1501, SPED 2630, PSYC 3709, EDTC 3771, FOUN 3708, FOUN 3710, MULT 4807, SED 4845, SED 4842A.

Students choosing to double major in physical education and health education should see an advisor in the Department to determine the best sequence to follow to complete all requirements for both degrees in the least amount of time possible.

DEPARTMENT OF MILITARY SCIENCE
330-941-3205

Assistant Professors Sleva (Chair), and Mueller; Instructors Ericksen, and Billett.

Army ROTC has served the University and the nation since 1949 by preparing students for service as professional officers in the United States Army. The military science program at YSU offers a four year course of study that adds practical management training and leadership experience to students’ chosen degrees.

ROTC expands a student’s education by providing leadership and management experience. This training helps students develop self-discipline, physical stamina, and poise — qualities basic to success in any worthwhile career. Students genuinely interested in military service can earn commission as second lieutenants in the U.S. Army (which includes the Active Army, Army National Guard, and Army Reserve) while earning their college degrees. Through ROTC, the Army gains officers with diverse educational backgrounds and contemporary ideas. At the same time, ROTC graduates have the chance to use their training in positions of leadership, and they enable the Army to relate to the thoughts and feelings of our ever-changing society. At present, over 80 percent of all second lieutenants for the U.S. Army come from ROTC programs nationwide. Students who have career goals outside the Army that require leadership or managerial skills, with interests in national defense structure, and who wish to explore the benefits of the Army are encouraged to enroll in the introductory lower-division military science courses. These

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courses can be applied as elective credit toward graduation. Participation in these classes is voluntary and carries no military obligation.

Army ROTC is one of the programs at YSU that provides leadership training. In Army ROTC, students quickly gain the confidence and self-discipline necessary to succeed in college. As they progress, students acquire skills and experience in taking charge of activities, setting goals, managing people and resources, and making decisions in demanding circumstances. When they complete the Army ROTC program and graduate from YSU, students will have gained both leadership and academic credentials necessary to take on responsibility as Army officers and/or step into corporate America. A minor in Military Science is available in consultation with the academic major advisor and the Military Science Department.

Four-year Program

The four-year Army ROTC program is divided into two parts: the Basic Course and the Advanced Course.

The Basic Course is usually taken during the freshman and sophomore years: MSCI 1510, MSCI 1520, MSCI 2610, and MSCI 2620. No military commitment is incurred during this time. After completing the Basic Course, students who have demonstrated officer potential and meet physical and scholastic standards are eligible to enroll in the Advanced Course. The Advanced Course is normally taken during the junior and senior years of college: MSCI 3710, MSCI 3720, MSCI 4810, and MSCI 4820.

Advanced Course cadets attend a four-week ROTC Leader Development and Assessment Course (LDAC) (MSCI 3740) during the summer between their MS III and MS VI (junior and senior) years. In this course students put into practice the leadership and tactical skills they have acquired in the classroom.

All students in the Advanced Course receive uniforms, pay for the Leader Development and Assessment Course (LDAC), and a living allowance each school year.

Before entering the Advanced Course, an individual signs a contract that certifies an understanding of the service obligation. This obligation may be fulfilled in a variety of ways depending on the individual’s personal preference and the needs of the Army at the time of commissioning.

Scholarship graduates incur an eight-year obligation and are required to serve one of the following obligations: two years on active duty and four years in an Army Reserve or National Guard unit then two years in the Individual Ready Reserve (IRR); or three years on active duty and five years in the IRR; or four years on active duty and four years in the IRR; or eight years in Army Reserve or National Guard unit.

Non-scholarship graduates are required to serve one of the following obligations: two years on active duty and six years in the IRR; or three years on active duty and five years in the IRR; or four years on active duty and four years in the IRR; or eight years in Army Reserve or National Guard unit.

Two-year Program

The two-year program permits students who attended a junior college, transfer students, or those who did not take Military Science Basic Courses during their first two years of school, and students entering a two-year post graduate course of study to enter the ROTC Advance Course. Students can take advantage of this opportunity by successfully completing a paid four-week ROTC Leaders Training Course (MSCI 2640), usually after their sophomore year, and enrolling in the ROTC Advanced Course, normally in their junior year. Except for this camp, the requirements for and obligations incurred in the two- and four-year programs are the same.

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All commissionees incur a service obligation of eight years with service being either full time active duty or part time in the reserves. The mix of active and reserve duty is determined by the needs of the Army, the cadets performance and the type of contract the cadet signed (scholarship or non-scholarship, guaranteed Reserve Forces Duty or participation in the Simultaneous Membership Program of the Army Reserve/National Guard).
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**Opportunities for Veterans/Junior Rotc Graduates**

Because military experience may serve as total credit for the ROTC Basic Course, most veterans and students with three years of Junior ROTC (high school) are eligible for the ROTC Advanced Course without further instruction.

**Army ROTC/Army Reserve/Army National Guard**

Students can further broaden their college experience and earn extra income by combining ROTC with service in the Army Reserve or Army National Guard through the two-year Simultaneous Membership Program (SMP). If students qualify, and SMP vacancies are available, they may join the Army Reserve or Army National Guard unit as officer trainees and simultaneously enroll in the Army ROTC Advanced Course. In addition to an annual subsistence allowance received for Advanced ROTC, SMP participants are paid for their Reserve or Guard drills and summer training sessions.

**Army Nurse Corps**

To qualify for appointment in the Army Nurse Corps, the student must complete the ROTC program and obtain a baccalaureate degree in nursing. Students who meet all professional requirements will serve as Army nurses on Active Duty, in the Army National Guard, or in the Army Reserve.

**Scholarship Programs**

See ROTC Military Science (Gold Bar) Scholarships and Army ROTC Scholarships in Appendix B of this Bulletin.

**Leadership Laboratory**

A practical exercise period for both Basic and Advanced courses. Provides hands-on experience in practical military skills and the development of essential characteristics of leadership through progressive evaluation and counseling, MSCI 1530L, MSCI 2630L, MSCI 3730L and MSCI 4830L.

**Extra-Curricular Activities**

Cadets are given the opportunity to participate in numerous extra-curricular activities during the school year. During fall semester, cadets can try out for the Ranger Challenge Team, which competes each October against 40 other universities in Ohio, Kentucky, Indiana, Michigan, and Tennessee. The weekend competition takes place at Fort Knox, Kentucky. A Ranger Challenge Team consists of 9 primary members and one alternate and is coached by a cadre member. The competition consists of several events to include basic rifle marksmanship, one rope bridge, land navigation, 10K forced march, Army Physical Fitness Test, obstacle course, and typically an event or two that are not known until the teams arrive.

Additionally, cadets will take part in a field training exercise at Camp Ravenna Joint Training Center, in Ravenna, Ohio and attend a military dining-in on the YSU campus.

During spring semester, cadets will fire on a rifle range, attend a military ball, and take part in a joint field training exercise with Kent State, John Carroll, and Akron universities as well as Mount Union College. Seniors only (MSIV-level cadets) participate in a battle analysis which consists of a battle analysis briefing and a two-day tour of Gettysburg National Battlefield.

Other optional activities that cadets can participate in include the ROTC Cannon Crew which is a group of cadets that support YSU football games by firing a miniature cannon and performing push-ups after each Penguin touchdown at home football games. The Military Science Department also sponsors several tailgates during the football season that require cadet involvement. Numerous cadets also take part in performing color guards for various on- and off-campus events in support of the University and local community.

**Optional Summer or Winter Break Training**

An order of merit list is maintained between the three partner ROTC schools (Kent State, Youngstown State, and Mount Union College) to determine the top cadets who are eligible for limited slots in various US Army training schools during the summer and winter break. These schools can include and are not limited to the US Army Airborne School, Air Assault School, Scuba School, Robin Sage, Northern Warfare, Engineer Sapper school, Helicopter Training Program, Summer Nurse Training Program, and others (see Military Science Department for a complete listing).
DEPARTMENT OF NURSING
330-941-3293

Professors Hoyson (Chair), Mosca, Schuster; Associate Professors Aurilio, Bosley, Serroka, Wagner, Wood; Assistant Professors Lisko, O’Dell; Instructors Daniels, Janosik, McManus, Shields, Shortreed, Thompson, Rendano, Roche, and Weaver.

The Department of Nursing offers a Bachelor of Science in Nursing (BSN) degree, a Bachelor of Science in Applied Science (BSAS) degree in Nursing Home Administration, and a School Nurse Licensure Program. Graduate programs leading to a Master of Science in Nursing (MSN) degree are also available. Refer to the Graduate Bulletin for details.

Bachelor of Science in Nursing Program

Two programs are offered - a generic (pre-licensure) and RN completion program. The generic program is a four-year program for new or transfer students entering YSU without a previous degree or diploma in nursing. The generic program prepares students for entry level professional nursing. Graduates are eligible to sit for the NCLEX examination for licensure as a Registered Nurse.

The RN/BSN Completion Program is offered for students who are currently licensed as registered nurses and are returning to YSU to complete requirements for a baccalaureate degree. The RN/BSN Completion Program takes two or more academic years on a part-time basis, depending on the student’s academic background.

Accreditation

The BSN program is approved by the Ohio Board of Nursing (17 S. High Street Suite 400 Columbus, Ohio 43125 phone: 614-466-3947) and is accredited by the National League for Nursing Accrediting Commission (3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326 phone: 404-975-5000).

Admission Requirements for the Bachelor of Science in Nursing Program

Admission into the BSN degree program is restricted. Generic students complete admission requirements as pre-nursing majors before formal admission to the BSN program. Admission to the University provides these students with the opportunity to complete a core of pre-nursing courses after which they may apply and compete for a position in the Nursing Program. First-time freshman students who graduate in the top 20% of their high school class and score a Composite ACT of 24 or an equivalent combined SAT score of 1650 (new) are guaranteed a position in the Nursing Program. To maintain this guaranteed position in the Nursing Program, these students must maintain a pre-nursing GPA of 3.0 with at least a “C” in all required pre-nursing courses (with no course repetitions). In addition to these grade requirements, all other admission requirements must be met. Students who do not meet the criteria for maintaining their guaranteed position, but meet the general requirements for admission into the Nursing Program, will be considered for fall admission with all other nursing applicants. Admission for the generic BSN program is held only once a year for Fall registration. Students who are scheduled to complete all admission requirements by the end of spring semester are eligible to apply for fall semester admission. Students who are scheduled to complete all admission requirements by the end of summer semester are eligible to apply for late admission. Late admission applicants will be considered if, and only if, there are slots available after all earlier submitted applicants have been considered.

Students who are currently registered nurses and seeking BSN completion requirements are admitted on an individual basis. RN admission is held any semester depending on their transferable prerequisites

Applicants for the BSN degree program must meet the following minimum requirements:

1. General University pre-college requirements for the Bachelor of Science degree.
2. Completion of required pre-nursing courses with a grade of “C” or better and a cumulative GPA in these courses of 2.80.
3. A cumulative GPA of 2.5 in all college course work.
4. Evidence of current CPR for Health Care Provider Certification.
5. Completed physical examination and immunization requirements.
6. Fingerprinting by the YSU Police Department for BCI&I and FBI criminal records check.
7. Photocopy of valid YSU ID.
8. YSU Student Conduct Review.

Registered nurses in the RN/BSN-Completion Program must meet all of the above requirements in addition to being a registered nurse with a current license to practice in Ohio.

Required pre-nursing courses for generic BSN students include:

- BIOL 1551/L, 1552/L
- CHEM 1505/L and 1506/L
- PSYC 1560 and 3758
- ENGL 1550 and 1551
- SOC 1500
- MATH 2625
- ENGL 1550/L and 1551/L
- BIOL 1552/L
- CHEM 1506/L
- PSYC 3758/L
- ENGL 3550/L
- SOC 1501
- MATH 2626

Admission to the University, meeting minimal program admission requirements, and completion of pre-nursing courses does not guarantee admission into the nursing program. Pre-nursing students are encouraged to seek advisement on a regular basis from the pre-nursing advisor in the Dr. Dominic A. and Helen M. Bitonte College of Health and Human Services.
Course Enrollment/Scheduling

All nursing courses except NURSG 2610 are available only to students formally admitted into the BSN program. Courses identified in the Schedule of Classes for RNs only are limited to registered nurses enrolled in the RN/BSN Completion Program.

Many nursing courses include an off-campus clinical component. These courses are designated on the curriculum list with semester hours in parentheses. Example: NURS 3743...5(3+2). This course has three semester hours of lecture and two semester hours of clinical. Generally, one semester hour of credit is earned for each three clock hours of on-campus laboratory skills instruction and for each three off-campus clock hours of clinical instruction. The exceptions are NURS 3741 clinical, where it is 2.7 clock hours per semester hour and NURS 4853 clinical, where it is 4 clock hours per semester hour. Personal responsibility for transportation is required for travel to off-campus clinical sites.

Malpractice insurance is required for all clinical nursing experiences and is provided by the University when the student registers for the specified courses. Some risk is inherent to nursing students during their clinical education, but precautions are taken to minimize this risk.

Academic Requirements for the Bachelor of Science in Nursing Degree

The generic BSN program consists of 127 total semester hours; 71 semester hours are nursing courses and include 90 on-campus lab hours and 960 clinical contact hours.

Students are responsible for adhering to the prescribed BSN curriculum sequence including, but not limited to, course prerequisites and mandated sequencing of nursing courses. It is also the students’ responsibility to see that all graduation requirements for the BSN degree are satisfied. It is recommended that students frequently seek guidance from their nursing advisor. A copy of the BSN curriculum is available from the Department of Nursing. This program can be completed in eight semesters if students adhere to a curriculum schedule of 14-17 credit hours per semester.

After admission to the program, a grade of “C” or better is mandatory for all nursing courses, required non-nursing support courses, required elective, and general education hours. Only one nursing or one non-nursing support course (BIOL 1560/L Microbiology or FNUT 1551 Nutrition) may be repeated. A repeated course must be successfully completed with a grade of “A,” “B,” or “C” and all incompletes must be removed before progressing in the nursing curriculum. A grade of less than “C” in a second nursing or required non-nursing support course will result in permanent removal from the nursing program.

A Bachelor of Science in Nursing degree will be granted to the student who has completed the required baccalaureate nursing curriculum with a minimum grade point average of 2.00.

The Department of Nursing reserves the right to remove a student from the program when that student’s performance in any nursing course is deemed to be unsafe as characterized by dangerous, inappropriate, irresponsible or unethical behavior. The Department reserves the right to dismiss a student who, for legal, ethical, academic, emotional, or physical reasons, cannot be advised to continue in the program.

Current immunizations, CPR for Health Care Professionals certification, and annual fingerprinting by the Youngstown State University Police Department for BCI&I and FBI criminal background checks are required of all nursing students. If the criminal record check reveals an egregious felony, the Ohio Board of Nursing will not consider the applicant for licensure. Please refer to the Ohio Board of Nursing website, http://www.nursing.ohio.gov/ for additional information. Some lesser offenses may impede student placement at a clinical site, which will affect the student’s ability to progress in the program. Students must adhere to a dress code which includes the wearing of specific nurse’s uniform for nursing clinical courses. All policies/requirements stated in this Bulletin and the BSN Undergraduate Handbook must be adhered to by students throughout the program.

Learning Outcomes

Baccalaureate Nursing Program Objectives/Competencies

The integration of nursing theory, clinical practice, and critical thinking serves as the foundation for the program and upon completion of the program, the graduate is able to:

- Use the American Nurses Association Standards of Care when providing care for individuals, families, groups, and communities across the life span.
- Use critical thinking in decision-making and problem-solving while adhering to the Professional Code of Ethics for Nurses.
- Use effective and appropriate interpersonal communications and information technology.
- Apply theories and research findings from nursing and other disciplines to provide evidence-based, clinically, competent care.
- Provide culturally sensitive care and health education to individuals, families, groups, and communities.
- Demonstrate leadership and apply management skills that promote accountability, legal and ethical conduct, and maintenance of standards of care.
- Collaborate with the interdisciplinary health-care team in planning, coordinating, and evaluating outcomes for quality cost-effective care and continuous improvement of the healthcare system.
Students (Non-RN)

Science in Nursing Degree for Generic Curriculum leading to the Bachelor of

Youngstown State University Undergraduate Bulletin

Courses Semester Hrs.
CHEM 1506/L Chemistry 2 ..............................3 (2+1)
SOC 1500 Sociology ....................................................3
ENGL 1551 Writing II .................................................3
PSYC 3758 Life Span Development
BIOL 1552/L Anatomy & Physiology .............4 (3+1)

Courses Semester Hrs.
MATH 2625 Mathematical Literacy & Critical Reasoning ............................................4  

SECOND SEMESTER (Pre-Nursing)

Courses Semester Hrs.
Biol 1552/L Anatomy & Physiology ..................4 (3+1)
PSYC 3758 Life Span Development ..................3
ENGL 1551 Writing II .................................................3
SOC 1500 Sociology ....................................................3
CHEM 1506/L Chemistry 2 ..............................3 (2+1)

SECOND SEMESTER (Nursing Majors)

Courses Semester Hrs.
Biol 1560/L Microbiology ..................................3 (2+1)
NURS 2610 Contemporary ..............................3
NURS 2643/L Health Assessment ....................4 (3+1)
NURS 2646 Pathophysiology ............................4

SECOND SEMESTER

Courses Semester Hrs.
FNUT 1551 Nutrition .............................................3
CMST 1545 Communications ............................3
NURS 2650 Pharmacology ................................3
NURS 2645/L Professional Nursing 1 ...........8 (3+5)

THIRD YEAR

FIRST SEMESTER

Courses Semester Hrs.
NURS 3741/L Prof. Nursing 2 ..........................6 (3+3)
NURS 3710/L Nursing in the Community ..........5 (3+2)
Society & Institutions or Art & Lit GER ..........3
Elective .................................................................2  

SECOND SEMESTER

Courses Semester Hrs.
NURS 3743/L Prof. Nursing 3 .......................5 (3+2)
NURS 3749 Nursing Research ..........................3
NURS 3731/L Childbearing, Family & .......5 (3+2)
Women’s Health
Art & Lit GER .........................................................3

FOURTH YEAR

FIRST SEMESTER

Courses Semester Hrs.
*NURS 4840/L Complex Care ..........................5 (3+2)
*NURS 4832/L Nursing Care of Children ..........5 (3+2)
Society & Institutions GER ..........................3
Art & Lit GER ........................................................3

SECOND SEMESTER

Courses Semester Hrs.
*NURS 4842/L Mental Health Nursing .............5 (3+2)
NURS 4844 Com. Health Nursing ........................3
NURS 4852 Senior Capstone Seminar ..............1
NURS 4853/L Nursing Transitions ....................4 (2+2)
NURS 4855 Comprehensive Nursing Summary .............................................1

*Will be taken either spring or fall semester.

Curriculum leading to the Bachelor of Science in Nursing Degree for RN Students (RN/BSN-completion)

1. Nursing credit hours awarded after completion of NURS 2643, NURS 2650, and NURS 2646 with a cumulative GPA of 2.00 ..........44 hrs.

Equate to the following courses:
NURS 2645, NURS 3731, NURS 3741, NURS 3743, NURS 4832, NURS 4840, NURS 4842

2. Required Support Courses ..............Total 19 hrs.
MATH 2625 ......................................................4 hrs.
ART/LIT GER ..................................................6 hrs.
CMST 1545 ......................................................3 hrs.
SOC/INST GER ................................................6 hrs.

3. Required Nursing Courses ..............Total 30 hrs.
NURS 2643 ......................................................4 hrs.
NURS 2646 ......................................................4 hrs.
NURS 2650 ......................................................3 hrs.
NURS 3720 ......................................................4 hrs.
NURS 3749 ......................................................3 hrs.
NURS 4846 ......................................................5 hrs.
NURS 4854 ......................................................6 hrs.
NURS 4852 Senior Capstone Seminar .............1 hr.

4. Additional Academic Courses to meet the following minimum requirements:

127 minimum program hours for graduation with at least 48 hours in upper division.

*The eight required nursing courses and electives are offered on a hybrid format blending online presentations with regular class meetings on Tuesdays and Thursdays (late afternoon/early evening).

School Nurse Licensure Program

This program is designed to build on an undergraduate education and to prepare registered nurses for school nurse licensure. Courses are taught by
both the Nursing Department and the Beeghly College of Education. The required curriculum consists of 6 courses plus a practicum. The practicum is a 150-hour (5 s.h. credit) learning experience under the supervision of a licensed school nurse preceptor and a nursing faculty member. This practicum may be taken in increments to accommodate the working student. Opportunities for practicum hours to be waived (up to 2 s.h.) are considered on an individual basis for nurses with school nurse experience.

Students seeking admission into the school nurse licensure program must have an undergraduate degree with coursework in growth and development, psychology, sociology, and community health. Students must be licensed to practice nursing in Ohio or eligible to be licensed (graduate of an approved school of nursing). An Ohio Registered Nurse license is required for practicum placement. Contact Dr. Nancy Mosca, Nursing, for further information.

**NURSING HOME ADMINISTRATION**

The Department of Nursing offers a Bachelor of Science in Applied Science degree in nursing home administration. The program prepares students to become specialized, self-critical, accountable, licensed administrators in nursing and convalescent homes, retirement communities and related health care industries.

The program has been approved by the State of Ohio Board of Examiners of Nursing Home Administrators. Graduates are eligible to sit for the national and state licensure examinations.

Students must complete all required coursework for the university and major and have an overall GPA of 2.25, a “C” or better in all courses in the major, 1000 hours in an approved internship, 48 hours of upper-division courses, and 124 hours of coursework overall.

**Required Courses:**

- MATC 1501/ Medical Terminology
- FNUT 1551/ Normal Nutrition I
  - or FNUTR 5873/ Nutrition and Aging
- FNUT 2612/ Food Systems I: Operations
- NURS 2610/ Contemporary Nursing
- SOC 3703/ Aging and Society
- SCWK 3730/ Social Services and the Aged
- CSIS 1514/ Business Computer Systems
- ACCT 2602/ Financial Accounting
- ACCT 2603/ Managerial Accounting
- FIN 3720/ Business Finance
- MGT 3725/ Fundamentals of Management
- MGT 3735/ Communication for Management
  - and Business

- or PSYC 3712/ Survey of Industrial/Organizational Psychology
- SCWK 4860/ Health Issues for Social Work Practice
- CMST 3756/ Interviewing
- SOC 3701/ Social Statistics I
  - or SCWK 3750/ Analysis of Social Work Practice Data
- SOC 4850/ Research Methods
  - or SCWK 3760/ Research Methods for Social Work
  - or NURS 3749/ Nursing Research
- AHLT 5840/ Comparative Health Systems
  - or AHLT 5816/ Environmental Regulations for Health Care

- HSC 5893/ Workshop in Health
- SOC 4821/ Internship in Sociology
- SCWK 4827/ Integrated Capstone Seminar

**Required Support Courses:**

- PSYC 1560/ General Psychology
- SOC 1500/ Introduction to Sociology
- BIOL 1505/ Biology and the Modern World
- ECON 1501/ Economics in Action
  - or ECON 2610/ Principles 1: Microeconomics

**DEPARTMENT OF PHYSICAL THERAPY**

330-941-2558

Professor Iannucci, Associate Professors Landgraff, (Chair), Learman, Wetzel; Assistant Professors Ge, Giaffre (Academic Coordinator of Clinical Education), BieberParrott, Instructor Benedict.

The Department of Physical Therapy offers an entry-level postbaccalaureate professional curriculum, granting a Doctor of Physical Therapy (D.P.T.) degree. An entry-level doctorate requires undergraduate preparation in a field of study other than physical therapy followed by postbaccalaureate professional study in physical therapy. Only graduates from accredited postbaccalaureate programs may sit for the national physical therapy board examination; passage of this exam is required for licensure to practice. Only licensed physical therapists may legally engage in evaluation and treatment activities defined in state practice acts as “physical therapy.”

Because the professional graduate program requires undergraduate preparation and prerequisites, the program is summarized here. Further detail is
The selection/admissions process is competitive; meeting eligibility criteria to apply does not assure admission into the program. The admission criteria currently include GPA and GRE scores, interview, and references. The admissions process is subject to change based on Admissions Committee decisions; applicants should carefully review the application materials.

Upon completion of the physical therapy program graduates will:

- Be prepared to sit for and pass the National Licensure Examination
- Demonstrate professional, contextualized, decision making related to patient management.
- Formulate a plan of personal goals to continue professional development.
- Demonstrate a commitment to the physical therapy profession.
- Display the characteristics and abilities of an autonomous practitioner of physical therapy.

DEPARTMENT OF SOCIAL WORK
330-941-1598

Associate Professor Morawski (Chair); Associate Professors Keller; Silver; Assistant Professors Causey, Laing, Heo, Allen.

The baccalaureate degree with a major in social work prepares students for entry into beginning, generalist, professional social work practice. Social workers are employed in a variety of settings such as public and private welfare agencies, mental health centers, health care settings, educational systems, correctional institutions, and business and industry. The Social Work Program is accredited by the Council on Social Work Education. A baccalaureate degree in social work qualifies a person to apply for state licensing in social work.

Learning Outcomes

The student learning outcomes for the major in social work are as follows:

- Prepare students for beginning, generalist social work practice
- Provide students with the ability to integrate the knowledge, values, and skills of the social work profession into competent practice with individuals, families, groups, organizations and communities.
- Develop the ability of students to work with a diversity of clients, presenting problems, and social service delivery systems.
- Facilitate the development of core values and ethics of the social work profession.
- Prepare students to address issues affecting social and economic justice to include poverty, oppression, racism and discrimination.
• Prepare students to sustain their effectiveness by instilling the value of continuing professional growth.

Admission Policy

Neither admission to the University nor enrollment in social work courses as a pre-social work major guarantees full admission to the social work program. Full admission to the program is required to become a social work major and to gain access to upper-division social work classes. Pre-social work majors who are not formally admitted to the social work program will be unable to obtain a permit to register for Social Work 3736 and subsequent social work courses for which Social Work 3736 is a prerequisite.

PRE-SOCIAL WORK MAJOR

Students enter the BSW program by declaring themselves as pre-social work majors and begin progress toward a degree by enrolling in General Education Requirements, support, and pre-social work courses. These courses are typically completed in the freshman and sophomore years.

Neither admission to the University nor enrollment in social work courses as a pre-social work major guarantees full admission to the social work program.

Pre-social work courses include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 1550</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ENG 1551</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ANTH 1500</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>POL 1560</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 1510</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2600</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2622</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2641</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2642</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2644</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 4860*</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHIL 2625</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHIL 2630</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>REL 2601</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

*Topic: Health Issues for Social Work Practice

Students may also select GER math, science, and art and literature courses as they complete pre-social work requirements the freshman and sophomore years of the program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 2623</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCIENCE WITH LAB</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCIENCE</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCIENCE OR ART &amp; LITERATURE</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ART &amp; LITERATURE</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

SOCIAL WORK MAJOR

To gain entry into upper division social work courses beginning with SCWK 3736, students must be formally admitted to the social work major. To be admitted to the social work major, students must be declared pre-social work majors and meet the following requirements:

1. Complete all pre-social work courses with a C or better;
2. Possess an overall GPA of 2.5 or better;
3. Submit a completed Social Work Program Admission Application (available online or from the Department of Social Work) before the 4th week of the semester preceding the semester for which admission is sought.
4. Participate in an admission interview and be approved for admission by the BSW Program Admission Committee.

Progress toward the BSW degree proceeds through enrollment in the following upper division courses but prior to enrollment in field work in social services courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCWK 3736</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3750</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3760</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 5820</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3728</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3730</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3731</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

The following courses may be taken concurrent with the field work in social services:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCWK 4825 – 2 SEMESTERS</td>
<td>6 s.h. each</td>
</tr>
<tr>
<td>SCWK 3737</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3738</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 5822</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 5823</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 4826*</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 4827*</td>
<td>3 s.h.</td>
</tr>
</tbody>
</table>

*Must be concurrently taken with SCWK 4825.

See course descriptions for pre-requisites.

A Bachelor of Social Work (BSW) degree is awarded after completion of 124 semester hours of credit which includes all required support courses and social work courses of the major.

For more detailed information about admission to the social work program and field practicum, please refer to the Social Work Student Handbook and Social Work Field Internship Manual available in the Department of Social Work.

SOCIAL SERVICES TECHNOLOGY

The Department of Social Work offers a two-year program in social services technology leading to the degree Associate in Applied Science.
The primary purpose of this program is to provide a formal two-year degree for those currently employed social worker aides who wish to increase their professional qualifications, and for those who are entering the field of social work in the less complex positions.

The student must meet the general degree requirements and department course requirements as follows:

**General University Requirements**

**Courses Semester Hrs.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1550, 1551</td>
<td>6 s.h.</td>
</tr>
<tr>
<td>CMST 545</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ELECTIVE (Art &amp; Liter. GER)</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SOC 1500</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PSYC 1560</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>ANTH 1500</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>POL 1560</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2600</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>PHIL 2630</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>REL 2601</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>Elective</td>
<td>3 s.h.</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>63</strong></td>
</tr>
</tbody>
</table>

**Department Requirements for Social Services Technology**

**Courses Semester Hrs.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCWK 1510</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2622</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2641</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2642</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2644</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 3736**</td>
<td>3 s.h.</td>
</tr>
<tr>
<td>SCWK 2695**</td>
<td>6 s.h.</td>
</tr>
<tr>
<td>SCWK Special Population Elective</td>
<td>3 s.h.</td>
</tr>
<tr>
<td><strong>Total Credit Hours</strong></td>
<td><strong>27</strong></td>
</tr>
</tbody>
</table>

* Social Services Technology students must complete SCWK 3736 (Social Work Methods with Individuals) before taking SCWK 2695 (Applied Social Work).

To be eligible for the Social Service Technology degree students must earn a “C” or better in all support and major courses and have an overall GPA of 2.5 or greater.

**AEROSPACE STUDIES PROGRAM (Air Force ROTC)**

The Air Force ROTC program, offered through an agreement with Kent State University, provides professional preparation and leadership training for students considering service as officers in the U.S. Air Force. The program also offers information on Air Force career opportunities and the role of the military in the American society. Scholarships are available to help students complete their bachelor’s and/or master’s degrees.

**Overview.** There are two primary AFROTC programs under which officer candidates may earn their commissions. The first is a four-year AFROTC program. It includes membership in (and completion of) the General Military Course (GMC), a four-week field training course, and the Professional Officer Course (POC). The second is a two-year program designed for students who have two years of academic work remaining. In the two-year program, students are selected to participate in the POC program and attend a five-week field training course, which includes coursework covered during the freshman and sophomore years. Both programs result in a commission as a Second Lieutenant in the United States Air Force. A minor in aerospace studies is available in consultation with the academic major advisor and the Aerospace Studies Department.

**Registering.** Courses are normally taken for YSU academic credit as part of the students’ electives. Entering freshmen and sophomores may register for aerospace studies courses at the same time, and in the same manner, as they enroll in their other YSU courses. Juniors and seniors wishing to enroll in AFROTC should call the AFROTC Unit Admissions Officer prior to enrollment to discuss the particular requirements. Students enrolled in the program must travel to Kent State University once a week to attend the courses. Arrangements can be made for carpools or pick-up if the students do not have transportation.

**Curriculum.** The curriculum in aerospace studies is divided into two parts: the General Military Course—usually taken during the freshman and sophomore years—and the Professional Officer Course, normally taken during the junior and senior years (see Overview, above). Air Force officers are assigned as full-time faculty members and teach all aerospace studies courses. Freshmen may register for AF 1501 and 1503 for the fall term and AF 1502 and 1504 for the spring term. Sophomores may register for AF 2601 and 2603 for the fall term and AF 2602 and 2604 for the spring term. The courses include one hour of academic instruction and a 1½-hour leadership laboratory each week. All courses are taught at the Kent State University main campus in Kent, Ohio. Non-scholarship students incur no military obligation when enrolled in freshman- and sophomore-level courses. Juniors will register for AF 3701 and 3703 for the fall term and AF 3702 and 3704 for the spring term. Seniors in the AFROTC program will register for AF 4801 and 4803 for the fall term and AF 4802 and 4804 for the spring term.

**The General Military Course.** The General Military Course (GMC) is offered in four-sequenced lower-division aerospace studies courses. Each course consists of one hour of academic instruction per week and 15 leadership laboratory contact hours per semester. Non-scholarship membership in the GMC does not confer any military status or commitment upon the students, but affords them the opportunity to learn about the Air Force and its role in the American society. Students who do not want
commissions may take the aerospace studies courses for academic credit only. There is no military obligation incurred by enrolling in the GMC.

The Professional Officer Course. The Professional Officer Course (POC) is a four-part upper division aerospace studies course. Each course consists of three hours of academic instruction per week and 15 leadership laboratory contact hours per semester. Entrance into POC is limited to qualified students desiring to compete for Air Force commissions. Enrollment in this program is based upon a cumulative grade point average, physical qualifications, and leadership.

Veterans. Veterans with previous honorable, active U.S. military service who wish to enroll in the POC may be eligible for a waiver of either the GMC or its equivalent as an entrance requirement.

Uniforms and Textbooks. AFROTC uniforms and textbooks are provided at no charge. Textbooks are returned upon completion of each academic year or upon withdrawal from the course. Uniforms are returned upon completion of the program or withdrawal from the course.

Financial Assistance. Students who demonstrate academic and leadership potential may be selected by the professor of aerospace studies to compete for scholarships. The scholarship award includes tuition, textbook allowance, some course fees, and a monthly tax-free stipend.

Scholarship Statement of Understanding. Air Force ROTC scholarship recipients must meet and maintain certain academic and military retention standards and serve in the active-duty Air Force after graduation.

Contact Information. For further information, contact the Department of Aerospace Studies, AFROTC DET 630, 104 Terrace Hall, Kent State University, Kent, Ohio 44242 at (330) 672-2182, or e-mail us at: det630@kent.edu.
The College of Liberal Arts and Social Sciences

Shearle Furnish, Dean
Jane E. Kestner, Associate Dean

The College grants two bachelor’s degrees: Bachelor of Arts (B.A.) and Bachelor of General Studies (B.G.S.). Additionally an Associate in Arts (A.A.) degree is offered.

Included in the College are:

**Academic Departments**
Department of Economics
Department of English
Department of Foreign Languages and Literatures
Department of Geography
Department of History
Department of Philosophy and Religious Studies
Department of Political Science and Rigelhaupt Pre-Law Center
Department of Psychology
Department of Sociology, Anthropology, and Gerontology
College of Liberal Arts and Social Sciences Mission

The mission of Youngstown State University’s College of Liberal Arts and Social Sciences (CLASS) embraces interdependent aspects of teaching, scholarship, and service. The College seeks to meet the educational needs of students enrolled in its associate, bachelor’s, and master’s degree programs and to provide a core of liberal arts coursework for all YSU students.

Youngstown State University’s College of Liberal Arts and Social Sciences, through its general education and major requirements, seeks to prepare students for productive and rewarding lives by developing critical and creative thinking, sound judgment, and effective communication skills. The College strives to impart knowledge of the liberal arts and social sciences and to produce educated citizens who value learning. It helps students develop regional, national and global perspectives and a better understanding of the individual and society in the past and present. The College prepares students for careers, or for further graduate or professional study, by immersing them in liberal arts and social science disciplines. College faculty members use their expertise in service to the University, their professions, and the community to serve as advisors, mentors, and career counselors to students. In addition, they contribute to knowledge within their disciplines by presenting conference papers and publishing books and articles.

Finally, the College values diversity, exposing students to experiences and coursework that affirm the richness of ethnic, cultural, gender, and racial differences.

Programs

For the B.A. degree

Africana Studies
American Studies
Anthropology
Economics
English
French
Geography
Gerontology
History
Italian
Journalism

Philosophy
Political Science
Professional Writing and Editing
Psychology
Religious Studies
Social Studies
Sociology
Spanish

For the BGS degree

General Studies

ICP Program

Students whose needs are not met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (see Academic Policies and Procedures).

Minors

Minors are available in all program areas with many programs offering multiple and/or interdisciplinary minors. A minimum of eighteen (18) semester hours are required for the minor and 1/3 of the hours must be upper division.

Certificates

Certificate programs are offered in historic preservation and applied gerontology.

Prospective Teachers

Prospective elementary or secondary teachers may work toward a B.A. or B.S. in Ed. degree. Prospective high school teachers major in the College of Liberal Arts and Social Sciences department of their principal field and are advised by that department, except for the requirements for teacher certification, for which advisement is by the College of Education.

For the Institutional Report on the Quality of Teacher Preparation, Title II, Higher Education Act, please see Appendix B of this Bulletin.

Degree Requirements

Requirements for completion of a baccalaureate degree (B.A., B.G.S.) within the College of Liberal Arts and Social Sciences include all University requirements detailed in the Academic Policies and Procedures section of the Bulletin (i.e., requirements regarding total General Education Requirements, university credits, course levels, majors, and minors, grade point average, residency and degree applications). Specific requirements for each major in the College of Liberal Arts and Social Sciences are listed by department.

College Foreign Language Requirement for Bachelor’s Degree

All candidates for the B.A. degree are required to complete the elementary (1550) and the intermediate level (2600) of any foreign language offered. Students...
with a foreign language background may desire to take the foreign language placement test in order to place into the intermediate level (2600) to satisfy the requirement. It may be possible to satisfy the foreign language requirement through appropriate college transfer coursework and credit by exam.

College Requirements for the Bachelor of General Studies Degree

The Bachelor of General Studies degree (BGS) is a degree-completion option for students who have completed significant coursework but not the requirements for a specific major. Through careful evaluation of coursework already completed at YSU or other colleges and universities, a degree completion plan is constructed for each student. The BGS may also be appropriate for students for whom a general bachelor’s degree may lead to career advancement or for those students who seek the personal satisfaction of having completed a bachelor’s degree.

Individuals who have a bachelor’s degree are not eligible for the BGS degree, and the BGS degree may not be earned concurrently with another bachelor’s degree.

All BGS students complete the requirements of the General Education curriculum (old or new). As such, the goals of the general education curriculum are met by BGS students. They are as follows:

- Write and speak effectively
- Acquire, process, and present quantitative and qualitative information using the most appropriate technologies, including computers
- Reason critically, both individually and collaboratively; draw sound conclusions from information, ideas, and interpretations gathered from various sources and disciplines; and apply those conclusions to one’s life and society

The specific requirements for the completion of the Bachelor of General Studies (B.G.S.) degree are as follows:

A 48-semester-hour concentration with at least 24 s.h. of upper-division credit comprised of:

Two focus areas consisting of 18-24 s.h. each ............................................. 36-48 s.h.
Support courses outside the focus areas ...0-12 s.h.
An approved capstone course ......................1-3 s.h.
(Focus-area requirements are submitted by the departments offering the course work in the focus area and are approved by the director of General Studies in coordination with the General Studies Committee.)

Completion of a Cultural/Diversity Requirement..................................................6 s.h.
(Students are required to complete two classes from an approved list.)

Degree Requirements for Associate Degrees

Requirements for the completion of the Associate of Arts (A.A.) degree include those applicable to all associate degrees as detailed in the Academic Policies and Procedures section of the Bulletin: at least 64 semester hours of credit including 18-22 hours of general education. All associate degrees awarded in the College of Liberal Arts and Social Sciences require the following:

General Education Requirements

<table>
<thead>
<tr>
<th>Semester hours of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.A.</td>
</tr>
<tr>
<td>Writing I and Writing II ............................................. 6</td>
</tr>
<tr>
<td>Mathematics .................. ........................................... see note*</td>
</tr>
<tr>
<td>Four (4) additional courses from at least three (3) of the following areas with no more than one course from mathematics counted.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester hours of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.A.</td>
</tr>
<tr>
<td>12-13</td>
</tr>
</tbody>
</table>

Natural Science
Artistic & Literary Perspectives
Societies & Institutions
Personal & Social Responsibility
Mathematics 2623*
Speech

A.A. Concentration Area ............................................. 21
Electives ................................................................. 25-24
Total Degree Hours 64**

*All students in A.A. degree programs who, based on the Math Placement Test, are placed in the developmental math courses (MATH 1500/1501) are required to complete these prior to taking MATH 2623. Math 1500/1501 are not included in the graduation total hours.

**The last 20 semester hours must be completed at Youngstown State University.

Associate of Arts Concentration Areas include:

Humanities: Applicable courses include: literature courses in English or Foreign Language Departments; courses in philosophy and religious studies; survey and/or appreciation courses in the Department of Art, the Department of Communication, the Department of Theater and Dance, or the Dana School of Music; Africana Studies 2601 or HPES 2698.

Social Studies: courses must be selected from the following disciplines: Africana Studies (AFST 2600 only), anthropology, economics, human and regional geography, history, political science, psychology, and sociology.
Courses of Instruction and Curricula

In the following department sections, the course requirements for the various majors are given, but other requirements are not repeated from the list above.

Course descriptions can be found in a separate section in the back of this Bulletin.

AFRICANA STUDIES
330-941-3097

Professor Victor Wan-Tatah, Director.

The Africana Studies program was established in the fall of 1970, and a program for an interdisciplinary major in black studies was approved by the University Senate in the winter of 1972. The purpose of this major is to facilitate the academic investigation and analysis of the historical, literary, social, and aesthetic impact of people of African descent on American society and the world. It also provides for the systematic study of problems confronting the modern multi-racial world. The Africana Studies major can serve as a valuable complement to teacher education, humanistic study, and preparation for various fields of employment such as business, law or social work. An Africana Studies minor complements majors in related areas, especially in economics, education, English, health and human services, history, philosophy, political science, religious studies and sociology. Both the major and minor programs can provide diverse opportunities for employment and for graduate and postgraduate experiences.

Africana Studies Advisory Committee

Dr. Samuel Adu-Poku .............................................. Art
Dr. Isam Amin ..................................................... Geology
Dr. Daniel Ayana .................................................. History
Dr. Linda Causey .................................................... Social Work
Dr. Rosemary D’Apolito .......................................... Sociology
Dr. Priscilla Gitimu ................................................ Human Ecology
Dr. Beverly Gray .................................................... Psychology
Dr. Cryshanna Jackson .......................................... Political Science
Dr. Bonnie Laing .................................................... Social Work
Dr. Sherri Lovelace-Cameron .................................. Chemistry
Dr. Ndinzi Masagara ................................................ Foreign Languages
Dr. Walter Mathews .............................................. Communications
Dr. Denise Narcisse .............................................. Anthropology & Sociology
Dr. Tom Oder ............................................................
Dr. Christian Onwudie ........................................... Criminal Justice
Dr. Dolores Sisco .................................................. English
Dr. Victor Wan-Tatah .............................................. Phil./Religious Studies

Learning Outcomes

The student learning outcomes for the major in Africana studies are as follows:

- Students will demonstrate their knowledge of history, culture, politics, religion and philosophy of people of African descent and their contributions to world civilization.
- Students will demonstrate their ability to relate to issues of multiculturalism and diversity in national and global contexts.
- Students will effectively demonstrate writing skills and articulate critical ideas and concepts in research relating to the African American experience.
- Majors will effectively conduct independent research and demonstrate verbally and in writing, their understanding of the intellectual development of Africana Studies, including the theoretical underpinnings and its impact on their self understanding.
- Students will be able to critically analyze social, political, and cultural issues relevant to African Americans and the African Diaspora from a cross-cultural perspective.

Major in Africana Studies

The major in Africana Studies is part of a program leading to the Bachelor of Arts degree, and students electing the major must satisfy all other requirements for that degree. The major must include a minimum of 32 hours in Africana Studies courses and other courses approved for Africana Studies. At least 48 hours must be in upper-division courses. A grade of C or better is required in every course counted toward either the major or a minor in Africana Studies.

All Africana Studies majors must complete the following courses:

Core Courses

Africana Studies 2600 .............................................. 3 s.h.
  Introduction to Africana Studies I
  (GER–Societies and Institutions)
Africana Studies 2601 .............................................. 3 s.h.
  Introduction to Africana Studies II
  (GER–Artistic Literary Perspectives)
Africana Studies 3700 .............................................. 3 s.h.
  Colloquium 1
Africana Studies 3701 .............................................. 3 s.h.
  Colloquium 2
Chemistry 2602 ..................................................... 3 s.h.
  African and African American
  Contributions to Science
History 2663 ..................................................... 3 s.h.
  African Civilization
Social Studies Courses (choose 2-3 courses)
- American Studies 4801, 4802, 4803 ............... 9 s.h.
- Perspectives on America ................................ (total)
- History 2630 .............................................. 3 s.h.
- The Black Experience in American History
- History 4801 .............................................. 3 s.h.
- Select Problems in American History
- History 3750 .............................................. 3 s.h.
- History of Modern South Africa in the Sahara
- History 4860 .............................................. 3 s.h.
- Select Problems in Third World History
- Political Science 3706 .................................. 3 s.h.
- Minority Group Politics
- Psychology 3745 ....................................... 3 s.h.
- The Minority Individual
- Social Work 3726 ....................................... 3 s.h.
- The African-American Family
- Social Work 3727 ....................................... 3 s.h.
- The African-American Community
- Sociology 3700 .......................................... 3 s.h.
- Minority Groups
- Religious Studies 3751 ................................ 3 s.h.
- Liberation Theologies and Revolutionary Change

Humanities (choose 2-3 courses)
- Art 3742 ...................................................... 3 s.h.
- African Art
- Art 3744 ...................................................... 3 s.h.
- African-American Art
- English 2620 .............................................. 3 s.h.
- Introduction to African Literature
- English 4871 .............................................. 3 s.h.
- The Black Experience in American Literature
- Music 2616 ................................................... 3 s.h.
- Survey of Jazz
- Religious Studies 3708 ................................ 3 s.h.
- African American Religion
- Religious Studies 3710 ................................ 3 s.h.
- African and Neo-American Religion

Core Courses—18 s.h.
- Social Studies ............................................. 6-9 s.h.
- Humanities .................................................. 6-9 s.h.

Total in Major ................................................. 32 s.h.

In addition to the minimum of 32 hours in Africana Studies and courses directly relevant to Africana Studies, the major may include as many as 16 hours in any other courses approved by the director of Africana Studies program.

Suggested Minor
A minimum of 18 hours in courses listed above including the five Core courses.

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**AMERICAN STUDIES**

330-941-2978

Professor Stephanie Tingley, Coordinator

Core faculty:
- Frank Castronovo, Theater and Dance
- Gordon Frissora, Criminal Justice
- Qi Jiang, Sociology and Anthropology
- Sherry Linkon, English
- Martha Pallante, History
- John Russo, Management

American Studies offers students the opportunity to examine the central themes and issues in American life using material and approaches from a variety of disciplines. Through interdisciplinary core and a set of courses in associated fields representing key areas of knowledge and primary methodologies in American Studies, students gain awareness of the broad outlines of American history and culture as well as an understanding of important theories of culture and ways of studying American life. Students also complete courses in a focus area and an independent senior project designed to deepen their understanding of one aspect of American culture. Each student develops an individual plan for completion of the major, selecting from a list of approved courses from Liberal Arts and Social Sciences, Business, Education, Fine and Performing Arts, and Health and Human Services. This degree may be earned in eight semesters if students average 16 hours per semester.

**Learning Outcomes**

- Students will develop complex analyses of the influence of cultural diversity on major developments and cases in American history and life, integrating cultural materials with concepts of social formation and process.
- Students will compare and connect historical trends, social issues, and/or cultural texts in the US with related examples from specific other countries and/or the global situation of the period under question.
- Students will design and implement significant individual research projects that explore complex questions using appropriate materials, concepts, and methods from multiple disciplines.
- Students will present their own research to multiple audiences, making appropriate choices about the format, content, organization, and the use of evidence that are appropriate for different purposes, audiences, and situations.

**Degree Planning Guidelines**

1. The American Studies major consists of 48 hours of coursework including 12 hours of American Studies core courses, 15 hours of courses to fulfill the Literacy goals, 6 hours to fulfill the competency...
goals, and 15 hours in a focus area (see below for descriptions of these goals and areas). Because the major is interdisciplinary, students do not need a minor.

2. At least 39 hours of coursework must be taken in courses numbered 3700 and above.

3. Students must take a different course to fulfill each literacy or competency goal; no single course may count in more than one category for an individual student.

4. Courses must be selected from at least 3 programs or departments other than American Studies, and these courses must reflect a range of historical periods.

5. Before registering for AMER 4801, American Studies Research Seminar, a student must submit a Major Proposal, listing individual goals, courses chosen, and possible topics for the senior project. The proposal must be approved by the Coordinator and the American Studies Advisory Committee.

CURRICULUM

Required Core Courses–12 hours

2601. American Identity
3701. Approaches to American Studies
4801. American Studies Research Seminar
4810. Independent Project on American Culture

Literacy and Competency–21 hrs.

Choose one 3-hour course for each of seven learning goals listed on the following pages.

Literacies

Textual: Be able to analyze cultural texts such as visual materials, literary texts, artifacts, maps, historical documents, and others.

American Studies 4815 American Material Culture
Anthropology 3761 Cultures of the New World
Art 3744 Seventeenth and Eighteenth Century American Art
Art 3746 (W) Nineteenth Century American Art
Art 3747 African American Art
Art 3781 Native North American Art
English 3732 Images of Women
English 3765 Film Genres
English 3780 American Genres
English 4862 Themes in American Literature
English 4864 Selected Topics in American Literature
English 4865 Selected Topics in Film

Geography 3750 Topics in Regional Geography
History 4815 American Material Culture
History 5808 American Architectural History
Music 2616 Survey of Jazz

Social: Understand theories of culture and social processes, difference, and interactions between Americans as individuals and as members of groups.

American Studies 5845 Work in America
American Studies 5850 Class and Culture
Anthropology 3705 (T/W) Cultural Anthropology
Criminal Justice 5831 Violence in America
Education 3708 Education and Society
Geography 3723 Urban Geography
History 3723 History of American Sports
History 3736 History of American Cities
Management 3750 Human Behavior in Organization
Management 5845 Work in America
Political Science 3712 Political Behavior
Psychology 3707 Psychology of Intimate Relationships
Sociology 2601 Social Problems
Sociology 2640 Women in Society
Sociology 3705 The Family
Sociology 3707 Urban Sociology
Sociology 3741 Social Movements
Sociology 3743 Social Stratification and Inequality
Social Work 2641 American Social Welfare

Historical: Understand historical narratives of the U.S.

American Studies 2605 Turning Points in U.S. History 1
American Studies 2606 Turning Points in U.S. History 2
American Studies 3770 American Literature in Historical Perspective
Anthropology 4825 New World Archaeology
English 2626 (O) American Journalism
English 3770 American Literature in Historical Perspective
Geography 3722 Historical Geography of the United States
History 2605 (T) Turning Points in U.S. History 1
History 2606 (T) Turning Points in U.S. History 2
History 3700 The Atlantic World
History 3702 Early America
History 3704 The Age of Jefferson and Jackson
History 3706 The Age of Sectionalism
History 3710 Incorporation of America: 1877-1919
History 3712 United States in Crises: 1920-1945
History 3713 Cold War America: 1945-1990
History 3732 The West in American History 1
History 3733 The West in American History 2
History 3734 History of Organized Crime in the United States
History 4801 Selected Problems in American History

Global and Cross-Cultural Perspectives: Through study of other cultures or cross-cultural analysis, gain awareness of the complicated relationship between United States and other countries and cultures.

American Studies 3705 Cultural Anthropology
Anthropology 3705 Cultural Anthropology
Anthropology 3790 Cross-Cultural Perspectives of Aging

Foreign Language 2660 (W) Women in the Ancient World

History 1511 (T) World Civilization to 1500
History 1512 (T) World Civilization since 1500
History 2663 African Civilizations
History 3727 Mexico and the Caribbean
Philosophy 3702 (O) History of Modern Philosophy
Philosophy 3760 Ethics of War and Peace
Political Science 2640 Comparative Government
Political Science 2660 (T) International Relations
Political Science 2695 Model United Nations
Political Science 3744 European Politics: National, Regional, International
Political Science 3751 Latin American Politics
Political Science 3763 International Law
Political Science 3764 International Organizations
Political Science 3768 International Conflict & Conflict Management
Political Science 5820 Select Problems of Global Affairs
Religion 2605 (O) Myth, Symbol, and Ritual
Religion 3710 African and Neo-African Religions
Religion 3726 Buddhism
Religion 3751 Liberation Theologies and Revolutionary Change
Theater 4860 (W) Dramatic Texts

Cultural Pluralism: Explore the diversity of American culture, especially issues such as ethnicity, gender, race, class, language, and region.

Africana Studies 2600 Introduction to Africana Studies 1
Africana Studies 2601 Introduction to Africana Studies 2
Africana Studies 3700 Africana Studies Colloquium 1
Africana Studies 3701 Africana Studies Colloquium 2
American Studies 3700 Minority Groups
Art 3744 African American Art
English 2617 Women in Literature
English 2618 American Literature and Diversity
English 3790 Selected Topics in Multicultural Studies
English 4871 The Black Experience in American Literature
Foreign Languages 2630 German-Americans
History 3726 (W) History of Women in the United States
History 3730 The Black Experience in American History
History 3743 Labor in United States History
Management 3755 Managing Diversity
Political Science 3706 African-American Politics
Psychology 3730 (W) Psychology of Women
Psychology 3745 The Minority Individual
Religion 3708 African-American Religion
Religion 3710 African and Neo-African Religion
Religion 3720 Islam
Religion 3722 Christianity
Religion 3724 Judaism
Religion 3736 Buddhism
Sociology 2640 Women in Society
Sociology 3700 Minority Groups
Sociology 3743 Social Stratification and Inequality
Sociology 3703 Aging and Society
Spanish 3758 Culture and Literature of Spanish-Speaking Groups in the U.S.
Spanish 4885 Topics in Hispanic Literature and Film
Competencies

Quantitative: Be able to analyze quantitative data such as statistics, opinion polls, or content analysis, and use such information in cultural analysis.

- American Studies 3720  Applied Sociology
- Anthropology 4850  Research Methods
- Criminal Justice 3712  Criminal Justice Research
- Political Science 3712 (T)  Political Behavior
- Political Science 3714  American Public Opinion
- Sociology 3720  Applied Sociology
- Sociology 4851  Social Research

Qualitative: Be able to gather and analyze qualitative data through techniques such as interviewing, close reading, aesthetic interpretations, and making links among various kinds of sources.

- American Studies 3770  American Literature in Historical Perspective
- American Studies 4815  American Material Culture
- Anthropology 3702  Archaeology
- Anthropology 3778  Archaeological Techniques
- Anthropology 4877  Method and Theory in Archaeology
- English 3770  American Literature in Historical Perspective
- History 4811  Practicum in Historic Preservation
- History 4815  American Material Culture
- History 5809  Documentation and Interpretation of Historical Sites
- History 5810  Conservation of the Historic Built Environment

Focus Area–15 hours chosen from the courses listed above

Students may propose other courses to be included in the focus area, with the approval of the coordinator.

ANCIENT LANGUAGES AND LITERATURE

See Greek; Latin; Philosophy and Religious Studies.

ANTHROPOLOGY

See Sociology and Anthropology.

DEPARTMENT OF ECONOMICS

330-941-3428

Professors Petruska, Porter (Chair), Riley, Usip; Associate Professors Hu, Palardy, Wang; Assistant Professors Ovaska, Sumell, Uppal.

A student can earn either a Bachelor of Arts (B.A.) in economics through the College of Liberal Arts and Social Sciences or a Bachelor of Science in Business Administration (B.S. in B.A.) in business economics through the Williamson College of Business Administration. Either degree may be earned in eight semesters if students average 16 hours per semester.

The economics major is designed to prepare students for careers both in the public and private sectors and for additional study in the field of economics. Economics graduates are qualified for a wide variety of positions in the financial sector, and jobs in business and government research. Students frequently use a major in economics as preparation for law school. Graduates choosing to pursue additional study in economics have been very successful in gaining admission to masters and doctoral programs.

To earn the B.A. degree the student must satisfy all the degree requirements in the College of Liberal Arts and Social Sciences and take 32 hours of courses from the Department of Economics. Required courses are: 2610, 2630, 3710, 3712, 3790, and 4880. Courses at the 1500 level cannot be counted towards the major. Students must take a course in calculus (MATH 1552, 1570, or 1571) prior to taking ECON 3710 and 3712. Students intending to apply for Ph.D. programs in economics should consider taking MATH 1571, 1572, 2673, and 3720.

For information on the B.S. in B.A. in Business Economics see the Williamson College of Business Administration.

Learning Outcomes

To be competitive in the job market, economics majors must have knowledge of microeconomics, macroeconomics, and statistical techniques. They must also be able to apply the theory and statistical techniques they have learned to public policy issues and business problems and be able to present their conclusions. The learning objectives of the economics major are as follows:

- Microeconomics – The student will be able to discuss the characteristics of different market structures and how the structure of a market affects consumers. The student will also be able to explain the conditions that must be met for an economy to use its resources in the most efficient manner possible.
• Macroeconomics – The student will be able to explain the major macroeconomic goals: rapid economic growth, high employment, and stable prices and how the tools of monetary and fiscal policy can be used to achieve macroeconomic goals.

• Statistical Analysis – The student will be able to interpret descriptive statistics, the results of hypothesis tests, and regression estimates.

• Communication Skills – The student will be able to give a well-prepared presentation on an economic problem. By well-prepared, it is meant that the presentation clearly frames the topic of the presentation, discusses the relevant theory and evidence, correctly document references, and proposes a conclusion consistent with the theory and evidence.

Specializations

The following are suggested curricula for students wishing to concentrate their studies in a specific area of economics.

Specialization in International Economics

Recommended economics electives: ECON 3701, 3720, 5809, 5811, and 5812. Students should also consider taking electives outside the major in accounting, marketing, and international relations.

Specialization in Money and Banking

Recommended economics electives: ECON 3701, 3702, 5809, and 4810. Students should also consider taking electives in accounting and finance.

Specialization in Quantitative Economic Methods

Recommended economics electives: ECON 5824, 5853, and 5856. Suggested non-economics electives are MATH 1571, 1572, 2673, and 3720, as well as introductory courses in computer programming.

Minors

Economics with Statistics

ECON 2610 (Principles 1, Microeconomics), ECON 2630 (Principles 2, Macroeconomics), ECON 3790 (Statistics for Business and Economics), and 9 semester hours of electives.

Economics

ECON 2610 (Principles 1, Microeconomics), ECON 2630 (Principles 2, Macroeconomics) and 12 semester hours of electives. ECON 3790 cannot be counted as electives in this track.

Courses at the 1500 level cannot be counted toward either of the two minors.

Courses Relevant to Other Majors

Below are several different majors and the economics courses most relevant to those majors:

Political Science: Econ 3702, Econ 4843, and Econ 4855.

Accounting and Finance: Econ 3701, 3710, 3712, 5809, 5811, and 5812.

Marketing: Econ 3710, 3712, and 5801.

Management: Econ 3710, 3712, 4810, 5801, and 5831.

Pre-Law: Econ 3702, 3710, and 3712.

Environmental Studies: Econ 3710, 3712, and 3705.

DEPARTMENT OF ENGLISH

330-941-3414

Professors Barnhouse, Brady, Brown, Finney, Gergits, W. Greenway, Leonard, Linkon, Nelson, Okawa, Reese, Salvner (Chair), Schramer, Shale, Tingley; Associate Professors Ball, Buchanan, Diamond, Francisco, Gordon, Hauschildt, Strom; Assistant Professors Andrews, Caccia, Earnheardt, Nykiel-Herbert, Sisco; Instructors Barzak, Benton, Lenhoff, Pittman, Shebat, Vigliotti.

Learning Outcomes

The English Department has established the following learning outcomes for students completing the English major:

• English majors will deploy varied strategies for engaging with literature on the levels of words, appropriate parts of texts, whole texts, contexts, and criticism.

• English majors will be able to situate texts in the appropriate literary, historical, and cultural contexts.

• English majors will be able to analyze how the production and reception of language and literature are influenced by differences of form, culture, and identity.

• English majors will effectively present and discuss ideas about literature and language in a manner that is appropriate for the situation.

Curriculum

Beyond the freshman sequence, the English major comprises at least 40 hours. Students may elect either a broad-based English Studies strand in the major, or a more focused Literature Studies strand, either of which may be completed in eight semesters if students average 15-16 hours per semester.
### Core Courses (19 s.h. required of all majors)

- ENGL 3700 — Introduction to Literary Studies 3 s.h.
- ENGL 3710 — Survey of British Literature 1 3 s.h.
- ENGL 3711 — Survey of British Literature 2 3 s.h.
- ENGL 3712 — Survey of American Literature 1 3 s.h.
- ENGL 3713 — Survey of American Literature 2 3 s.h.
- ENGL 4880 — Oral Communication for English Majors 1 s.h.
- ENGL 4890 — Senior Seminar 3 s.h.

### ENGLISH STUDIES STRAND (21 s.h. beyond core)

**Language Studies** 3 s.h.
- ENGL 3755 — Principles of Linguistics

**British Literature Studies** (choose one from list below) 3 s.h.
- ENGL 4830 — Major Figures in British Lit.
- ENGL 4831 — Genres, Circles & Movements in British Lit.
- ENGL 4860 — The Medieval World
- ENGL 4881 — Shakespeare and His World
- ENGL 4882 — The English Renaissance
- ENGL 4886 — Restoration & 18th Century British Lit.
- ENGL 4887 — The Romantic Period
- ENGL 4892 — 19th Century British Lit.
- ENGL 4895 — Early 20th Century British Studies
- ENGL 4896 — British Lit. WWII – present

**American Literature Studies** (choose one from list below) 3 s.h.
- ENGL 3770 — American Literature in Historical Perspective
- ENGL 3780 — American Genres
- ENGL 4862 — Themes in American Literature
- ENGL 4864 — American Literary Conversation
- ENGL 4871 — The Black Experience in American Lit.

**Multicultural Studies** 3 s.h.
- ENGL 2617 — Women in Literature
- ENGL 2618 — American Literature & Diversity
- ENGL 2620 — African Literature
- ENGL 3732 — Images of Women
- ENGL 3790 — Selected Topics in Multicultural Studies
- ENGL 4850 — Sociolinguistics
- ENGL 4871 — The Black Experience in American Literature

**Advanced Writing** (choose one from list below) 3 s.h.
- ENGL 3716 — Feature Writing
- ENGL 3717 — Editorial & Opinion Writing
- ENGL 3721L — Journalism Workshop
- ENGL 3740 — Advanced Writing
- ENGL 3741 — Advanced Writing for Teachers
- ENGL 3743 — Professional and Technical Communication
- ENGL 3744 — Proposal and Report Writing

- ENGL 3746 — Fiction Writing Workshop
- ENGL 3747 — Poetry Writing Workshop
- ENGL 3748 — Screenwriting

NOTE: Courses that fulfill this requirement may NOT also be counted toward electives.

### Electives (Two courses from any area in English, 2602 or higher) 6 s.h.

### Credit Hours Needed for English Studies Strand of English Major

- Core Courses ...................................................... 19 s.h.
- Language Studies ................................................3 s.h.
- British Literary Studies .......................................3 s.h.
- American Literary Studies ..................................3 s.h.
- Multicultural Studies ..........................................3 s.h.
- Advanced Writing ................................................3 s.h.
- Electives .................................................................6 s.h.
- Total ......................................................................40 s.h.

Minor.................................................................... 18 s.h.

General Degree Requirement ......................... 124 s.h.

### LITERATURE STUDIES STRAND (21 s.h. beyond core)

**Language Studies** 3 s.h.
- ENGL 3755 — Principles of Linguistics or
- ENGL 3757 — Development of the English Language

**Literary Studies** 3 s.h.
- ENGL 3706 — Introduction to Literary Theory

**Shakespeare** 3 s.h.
- ENGL 4881 — Shakespeare and His World

**British Literature Studies** 3 s.h.
- ENGL 4830 — Major Figures in British Lit.
- ENGL 4831 — Genres, Circles & Movements in British Lit.
- ENGL 4860 — The Medieval World
- ENGL 4881 — Shakespeare and His World
- ENGL 4882 — The English Renaissance
- ENGL 4886 — Restoration & 18th Century British Lit.
- ENGL 4887 — The Romantic Period
- ENGL 4892 — 19th Century British Lit.
- ENGL 4895 — Early 20th Century British Studies
- ENGL 4896 — British Lit. WWII – present

**Additional British or American Literature Studies** 3 s.h.
- Choose one additional course from British or American lists above.
Multicultural Studies 3 s.h.
ENGL 2617—Women in Literature
ENGL 2618—American Literature & Diversity
ENGL 2620—African Literature
ENGL 3732—Images of Women
ENGL 3790—Selected Topics in Multicultural Studies
ENGL 4850—Sociolinguistics
ENGL 4871—The Black Experience in American Literature

*May NOT also be counted toward American literary studies requirement.

Credit Hours Required for Literature Studies

Strand of English Major
Core Courses ...................................................... 19 s.h.
Language Studies .................................................3 s.h.
Literary Studies ....................................................3 s.h.
Shakespeare .......................................................... 3 s.h.
British Literature Studies .................................3/6 s.h.
American Literature Studies ...........................3/6 s.h.
Multicultural Studies ..........................................3 s.h.
Total .....................................................................40 s.h.

Minor ................................................................. 18 s.h.

General Degree Requirement......................... 124 s.h.

ENGL 3705 and ENGL 3741 are required of all English majors planning to apply for teacher licensure. ENGL 3741 is offered each fall as part of the English education block (TERG 3711 and ENGL 3741). Check with an English education advisor. English majors preparing to teach should take the SED 4800E methods course.

Because the discipline of English involves study of the controlled use of the language, students are expected to demonstrate their writing skills in all English courses.

The Department of English maintains the Writing Center for supplemental, noncredit instruction in writing. English majors may apply for student employment as peer tutors in the Center. (See the Student Services section for details.)

PROFESSIONAL WRITING AND EDITING

Professors Gergits, Nelson, Salvner (Chair), Schramer; Associate Professor Gordon; Assistant Professors Andrews, Caccia; Instructor Shebat.

Learning Outcomes

The English Department has established the following learning outcomes for students completing the professional writing and editing major:

- PWE majors will define, state, and achieve a specific purpose and target audience, recognizing and adjusting for budgetary and timeline constraints.

Curriculum

A major in professional writing and editing requires 61-63 semester hours, distributed as follows:

PWE CORE COURSES (24 s.h.)
2622—Basic Journalism ........................................3 s.h.
3723—Editing and Design for Newspapers ..........3 s.h.
3743—Professional & Tech Comm .....................3 s.h.
3744—Proposal and Report Writing ....................3 s.h.
3745—Online Text Workshop .............................3 s.h.
4843—Advanced Professional & Tech Writing ....3 s.h.
4849—Professional & Tech Editing ....................3 s.h.
4899—Prof. Writing Senior Project* .................3 s.h.

REQUIRED (6 s.h.)
3701 or 3702—Brit. and Amer. Lit. I or II............3 s.h.
(prerequisite to all upper-division literature courses)
3755—Principles of Linguistics .........................3 s.h.

OTHER LITERARY STUDIES (3 s.h.)
Choose 1:
1590—Introduction to Literature
2610—World Literature
2617—Women in Literature
2618—American Literature and Diversity
2620—African Literature
2631—Mythology in Literature
2632—Images of Women
2665—Introduction to Film Study
3738—Topics in World Literature
3765—Film Genres
3790—Selected Topics in Multiculturalism
4871—Black Experience in American Literature

LITERARY STUDIES (3 s.h.)
Choose 1:
3770—Am. Literature in Historical Perspective
3780—American Genres
4862—Themes in American Literature
4864—Selected Topics in American Literature
4871 — The Black Experience in Am. Literature  
4830 — Major Figures in British Literature  
4831 — Genres, Circles, and Movements in Brit. Lit.  
4860 — The Medieval World  
4881 — Shakespeare & His World  
4886 — Restoration and 18th-Century Brit. Lit.  
4887 — The Romantic Period  
4892 — 19th-Century British Studies  
4895 — Early 20th-Century British Studies  
4896 — British Literature from WWII to the Present  

SUPPORT COURSES (13-15 s.h.)  
4-6 hours from within the department:  
3716 — Feature Writing .........................................3 s.h.  
3717 — Ed. and Opinion Writing .........................3 s.h.  
3721L — Journalism Workshop ...........................3 s.h.  
3740 — Advanced Writing ....................................3 s.h.  
3746 — Fiction Writing Workshop or  
3747 — Poetry Writing Workshop .......................3 s.h.  
4898 — Prof. Writing Internship ......................1-3 s.h.

9 hours from:  
Approved Courses in Communications  
Approved Courses in Art  
Approved Courses in Office Information  
Systems/Desktop Publishing  
Approved Courses in Computer Science  
Approved Engineering Courses  
Approved Marketing Courses  
Approved Public Relations Courses  
Approved Advertising Courses  

You must meet any prereqs. for these courses. Specific course numbers/titles will be added after other departments complete semester conversion.

PROFESSIONAL AREA (15 s.h.)  

Take 15 approved semester hours in journalism, desktop publishing, graphics, advertising/public relations, computer science, chemistry, or engineering. Courses and degrees from the Bitonte College of Health and Human Services may also meet the requirement. Ask your advisor for approved-curriculum sheet(s). See the PWE coordinator to propose any other area.

Credit Hours Needed for Major:  
Required Courses .................................................6  
Literary Studies ..................................................9  
Support Courses .............................................13-15  
PWE Core Courses .............................................18  
Professional Area ..................................................15  
TOTAL: ..........................................................64-67 s.h.  

(See CLASS advisement sheet for graduation requirements)

Required for Graduation: 124 total hours (48 semester hours must be 3000 or 4000 level).

JOURNALISM  

Professor Salvner (Chair); Assistant Professors Earnheardt, Francisco; Instructors Lenhoff, Pittman.

The journalism program seeks to train students for entry-level positions in reporting, editing and newspaper design. The curriculum is a blend of courses that support this goal, such as News Reporting, Editorial and Opinion Writing, Feature Writing, Editing and Design for Newspapers, a journalism practicum (Journalism Workshop) in which students write for the student newspaper, and a battery of professional writing and editing courses designed to enhance editing, writing and publishing skills. There are no separate tracks, and journalism majors are encouraged to declare minors that support their specific career objectives, such as public relations, photography, political science, telecommunications, or art/design.

Learning Outcomes  

The English Department has established the following learning outcomes for students completing the journalism major:

- Journalism students will demonstrate an understanding of what constitutes news.  
- Journalism students will demonstrate an understanding of the First Amendment.  
- Journalism students will demonstrate an understanding of how to find and extract news.  
- Journalism students will demonstrate an understanding of how to write news, feature, and opinion stories.  
- Journalism students will demonstrate an understanding of how to evaluate others’ work.  
- Journalism students will demonstrate an understanding of how to recognize bias in the media.

Curriculum  

Following are the major course requirements:

<table>
<thead>
<tr>
<th>Journalism Courses</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2622</td>
<td>News Reporting ......................3</td>
</tr>
<tr>
<td>ENGL 2626</td>
<td>American Journalism .............3</td>
</tr>
<tr>
<td>ENGL 3716</td>
<td>Feature Writing ....................3</td>
</tr>
<tr>
<td>ENGL 3717</td>
<td>Editorial and Opinion Writing ....3</td>
</tr>
<tr>
<td>ENGL 3721-L</td>
<td>Journalism Workshop .............3</td>
</tr>
<tr>
<td>ENGL 3723</td>
<td>Editing &amp; Design for Newspapers ..................3</td>
</tr>
<tr>
<td>ENGL 3760</td>
<td>Advanced News Reporting and Writing ..................3</td>
</tr>
</tbody>
</table>
ENGL 4824  Press Law and Ethics ......................3  
ENGL 3743  Professional & Technical Communication ......................3  
ENGL 4849  Professional & Technical Editing ..............................3  
ENGL 4898  Professional Writing Internship .........................................3  
ENGL 4899  Professional Writing Senior Project ...................................3  
Total major hours ........................................................................ 36  

LINGUISTICS  
Barnhouse, Brown (Program Director), Okawa, Nykiel-Herbert, Vigliotti, English; Becerra, Corbé, Masagara, Foreign Languages.  

The University offers an interdisciplinary minor in linguistics with the advice and approval of the chair of the department the student is majoring in and of an advisor from the linguistics faculty.  

The minor requires completion of a minimum of 18 semester hours including ENGL 3755. See the Program Director for further details.  

DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES  
330-941-3461  
Professors Becerra, del Pozo, Sarkissian (Chair), Smith; Associate Professor Masagara; Assistant Professors Burkhart, Corbé, Simonini.  

See Degree Requirements at the beginning of the College of Liberal Arts and Social Sciences section for information about foreign language requirements. Degrees in foreign languages may be earned in eight semesters if students average 16 hours per semester.  

Learning Outcomes  
The department’s learning outcomes for foreign language majors are as follows:  

• Cultural Understanding—The student will develop an understanding and appreciation of the history and culture of those areas in which the target language is spoken.  
• Reading Comprehension—The student will be able to read and understand a variety of materials written in the target language. These materials may include but are not limited to: novels, plays, poetry, newspaper and magazine articles, and private correspondence (e.g., business communications).  
• Listening Comprehension—The student will be able to understand the target language when spoken in a variety of contexts. These contexts may include but are not limited to conversation with another individual or individuals, formal lectures, song, and film.  
• Oral Expression—The student will be able to carry on a conversation and deliver a speech in the target language.  
• Written Expression—The student will be able to compose in the target language a variety of written documents. These documents may include but are not limited to: formal and casual correspondence, essays, and creative works.  

Bachelor’s Degree Programs  

FRENCH  
Assistant Professor Corbé, Associate Professor Masagara.  

A major in French requires 30 semester hours beginning with FRNC 2600. The following French courses are required: FRNC 2600, 2605, 2606, 3710, 3715, 3740 plus 3 of the following: 3750, 3771, 3772, 3773; and 1 of the following: 4774, 4885.  

ITALIAN  
Assistant Professor Simonini.  

A major in Italian requires 31 semester hours beginning with ITAL 2600, 2605, 3720, 3725, 3730, 3735, 3750, 4800, 4825, 4880. A major in Interdisciplinary Italian Culture requires the following coursework: ITAL 2600, 2605, 3720, 3730, 3735, 3750, 4880; and three of the following: ART 3742, 3743, MUHL 3772, HIST 3758, 3785, for a total of 31 s.h.  

SPANISH  
Professor del Pozo, Professor Becerra, Assistant Professor Burkhart.  

A major in Spanish requires 30 semester hours beginning with Spanish 2605. The following Spanish courses are required: 2605, 2655, 3735, 3755; plus 1 of the following: 3724, 3736, plus 1 of the following: 3752, 3753, plus 1 of the following: 3756, 3757 plus 1 of the following: 3737, 3740, 3758; plus 2 of the following: 5855, 5870, 5885, 5890.  

Foreign Language Minors  
Minors are available in French, Greek studies (Ancient Greek), Italian, Italian studies, Latin studies, Russian studies, Spanish and Spanish language and cultures. Each minor requires 18 or 19 semester hours beginning with 2600 or 2605. Contact department for details or the Minors section of this Bulletin.
Foreign Language Education

For curricula leading to a multi-age license for teaching French or Italian or Spanish, see the Beeghly College of Education section of this Bulletin.

DEPARTMENT OF GEOGRAPHY
330-941-3317

Professors Campbell (Chair), Shaklee; Associate Professors Buckler, Shellito; Assistant Professors Cerney, Pugh.

Students majoring in geography earn the Bachelor of Arts degree. In addition to the usual University requirements, a student must complete a minimum of 33 semester hours in geography following the distribution listed below. At least 21 semester hours must be earned in upper-division geography courses. This degree may be earned in eight semesters if students average 16 hours per semester.

Required of all geography majors: GEOG 1503, GEOG 2610, GEOG 2640, GEOG 4890 and One course from: GEOG 3713, GEOG 3715, GEOG 3717, GEOG 3719, GEOG 3721 or GEOG 3750. Two courses from: GEOG 4813, GEOG 5805, GEOG 5806, GEOG 5810 or GEOG 5811

The department also advises a spatial information systems Individualized Curriculum Program (ICP) administered through the College of Liberal Arts and Social Sciences. Also offered is an 18-credit-hour certificate in geographic information science. Specialized areas of study provide background and skills needed by students planning to enter the fields of geographic information systems (GIS), remote sensing, global positioning systems, cartography, regional planning, climatology, meteorology, elementary and secondary education, earth sciences, environmental studies, and retail location. Undergraduate preparation can also lead to graduate study in geography or to a variety of professional fields such as law, business, and public administration.

Learning Outcomes

The department’s learning outcomes geography majors are as follows:

- Geography majors will come away from their YSU experience able to identify and define the basic elements of geography (location, distance, distribution, pattern, space and place).
- The majors will understand the themes of geography needed for fundamental geography instruction (region, movement, ecology, landscape, space and place).
- Our graduates will effectively use, analyze and interpret maps and other graphic portrayal of information.
- Geography graduates will graduate with well-honed abilities in research and writing aided by the projects and papers created for geography courses.
- Geography majors will be prepared to give oral presentations and public speaking experiences.
- The majors will each participate in a research project mentored by a YSU professor in order to understand the benefits of either theoretical or applied scholarship.
- Graduates will have participated in an internship, gaining practical and positive real world experience with employment related to the discipline of geography.

GREEK
See Foreign Languages.

DEPARTMENT OF HISTORY
330-941-3452

Professors Ayana, Pallante (Chair); Associate Professors Barnes, Bonhomme, Congdon, DelBlassio, Leary, Simonelli, Sinnreich, Viehe, York; Assistant Professor Gerardo.

The student majoring in history must complete, in addition to the general University requirements (see Degree Requirements, at the beginning of the College of Liberal Arts and Social Sciences Section), the group requirements listed below. It is recommended that the student select courses with assistance from an advisor, since certain courses are preferable to others according to whether one contemplates graduate study, secondary school teaching, or some other career.

The Bachelor of Arts in history can be completed in eight semesters if students average 16 hours per semester.

Learning Outcomes

The student learning outcomes for the major in history are as follows:

- Students will develop writing skills and apply them to assignments such as examinations, book reviews, analytical essays, and research papers.
- Students will learn to conduct research using primary and secondary sources and write research papers with appropriate notes and bibliography.
- Students will learn to draw major conclusion or interpretations from a variety of textual sources.
- Students learn that history is written from the perspective of the author.
• Students will learn to obtain historical data from a variety of sources.
• Students will learn to identify significant historical developments and explain their importance.
• Students will learn to identify, analyze and synthesize historians’ arguments, explanations and interpretations of historical events.
• Students will learn to evaluate major debates among historians concerning alternative interpretations of the past and project the consequences of broad acceptance of a particular position.
• Students will learn to compare economic, political, and ideological connections in at least three different world cultures.
• Students will learn to describe the changing economic, political and social situation of multiple cultures worldwide and within the United States.
• Students will learn to ascertain whether the lessons of the past pertain to similar situations in modern times.
• Students will learn to draw connections between ideas, interests, beliefs, and ideologies and their influence on individual and group historical actions.

Curriculum

Group A: History 1511, 1512, 2605, 2606 or 1511H, 1512H, 2605H, 2606H.

Select eight courses from the following with no more than three from each group:

Group B: 2601, 3700, 3702, 3704, 3706, 3710, 3712, 3713, 3715, 3717, 3723, 3726, 3730, 3731, 3732, 3733, 3734, 3736, 3740, 3741, 3742, 3743, 3744, 3748, 3762, 4801, 4811, 4812, 4815, 5806, 5807, 5810.

Group C: 3745, 3752, 3753, 3755, 3756, 3757, 3758, 3759, 3760, 3761, 3762, 3763, 3765, 3766, 3767, 3769, 3774, 3778, 3779, 3780, 3782, 3783, 3784, 3785, 3787, 3788, 3790, 3791, 3792, 3794, 4850, 4851.

Group D: 3700, 3727, 3728, 3740, 3749, 3750, 3751, 3770, 3772, 3774, 3776, 3779, 3781, 3789, 3795, 3796, 3797, 3798, 4850, 4860.

CAPSTONE: 4870.

Oral Intensive–4808.

NOTE: No course can count in more than one group. Six courses in Groups B, C, and D must be at 3700 level or higher.

History courses are part of the writing-intensive sequence that permits history majors and minors to meet their requirement in writing programmatically. Students will write at least one paper of 1,000 words or more and will undertake a draft-edit-redraft sequence. In each survey, they will write at least one paper of 500 words or more and will undertake a draft-edit-redraft sequence. The submissions will be evaluated according to criteria used by historians and will consider content, organization, and stylistic concerns.

A history major must provide an essay examination, a book review, a research paper, and one additional paper for a portfolio (all produced in history classes) that will be maintained in the History Department. The essay examination should be from an upper-division course. The book review should include a title page, bibliographic entry at the beginning, content analysis and evaluation with a minimum of 1,000 words, typed in a 10-12 font, double-spaced, and one-inch margins. The research paper will be based on primary or secondary sources with a minimum of 3,500 words, typed in a 10-12 font, double-spaced with endnotes or footnotes, bibliographic entries based on Chicago Manual of Style, a title page, and one-inch margins. A second paper from an upper-division class is also to be included.

Students transferring 20 or more semester hours in history to Youngstown State University from another institution must meet the group requirements listed above to obtain a major in History for graduation. At least five of the courses in Groups B, C, and D must be taken at Youngstown State University.

It is recommended that the student in choosing electives should acquire as broad a background as possible in the social sciences and the humanities. Particular attention is called to courses offered by the Departments of English, Economics, Political Science, Philosophy, Art, Music, Geography, and Sociology, and to the humanities courses. Students contemplating graduate work in history should consider taking more foreign language courses than the minimum necessary to meet the general degree requirement. Finally, the student is reminded that the Department of History takes seriously the University’s emphasis on the importance of adequate competence in the English language (See Proficiency in English, in the Academic Policies and Procedures section of the Undergraduate Bulletin); when there is need, students majoring in history should include in their programs advanced composition courses and courses in speech.

Certificate in Historic Preservation

Historic preservation specialists encourage the renovation and re-use of America’s built environment—buildings and bridges, farms and factories, battlefields and business districts, even entire neighborhoods. Professionals in this fast-growing field find employment with consulting firms, or with local, state, or national preservation groups, museums, or government agencies.

Youngstown State University offers a Certificate in Historic Preservation for students at either the undergraduate or graduate level. Six courses from the undergraduate Preservation Course, beginning
with Introduction to Historic Preservation (HIST 3715) and American Architectural History I and II (HIST 5806 and HIST 5807) and Conservation of the Historic Built Environment (HIST 5810). The Core concludes with a group project in the community, Practicum in Historic Preservation (HIST 4811), and Historic Preservation Internship (HIST 4812). Classes give students training in historic research skills plus direct experience in real-world preservation tasks.

Along with the Preservation Core, undergraduates must take two electives from the following list: HIST 3736, 3748, 4815; GEOG 3726, 3765, ANTH 4890, 4825; ART 2671, 4883; MRCH 4879.

In addition, hands-on instruction in preservation technology is available through arrangement with nationally renowned Belmont Technical College.

Undergraduates may earn the certificate as part of a history major, or as a minor supplementing work in a related field such as art history, anthropology, geography, or engineering.

ITALIAN
See Foreign Languages.

LATIN
See Foreign Languages.

LINGUISTICS
See English / Foreign Languages.

PEACE AND CONFLICT STUDIES PROGRAM
330-941-3437

Associate Professor Keith John Lepak, Political Science (Coordinator and Co-Director) with Associate Professor David Porter, Political Science (Co-Director).

The University offers a minor in Peace and Conflict Studies with the advice and approval of the chair of the department the student is majoring in. The multidisciplinary minor focuses on the historical, geographical, political, cultural, psychological, and philosophical dimensions of human conflict and conflict resolution, emphasizing the cross-cultural and global context of contemporary conflict situations and approaches to conflict management and resolution.

The following is a list of approved recommended courses for the minor; the minor consists of a minimum of 18 semester hours, of which at least 9 must be accumulated from approved upper-division courses (number 3000 and above):

- History 1512, World Civilization From 1500. 3 s.h.
- History 4860, Select Problems in Third World History. 3 s.h.
- Religious Studies 2601. Introduction to World Religions. 3 s.h.
- Religious Studies 2617. Introduction to Eastern Religions. 3 s.h.
- Geography 2626. World Geography. 3 s.h.
- Political Science 2660. International Relations. 3 s.h.
- Political Science 3768. International Conflict. 3 s.h.
- Psychology 4804. Conflict and Group Dynamics. 3 s.h.
- Sociology 3708. Political Sociology. 3 s.h.

Students should consult with the program coordinator in determining the particular composition of the minor.

Students interested in further study in the program may design and pursue an Individualized Curriculum Program (ICP) in consultation with program directors. Currently, peace and conflict studies has an approved ICP that allows interested students to pursue coursework in areas of global and regional studies, communications and dispute resolution, and peace strategies. The ICP offers the possibility of a comprehensive and focused major and is especially useful to students considering graduate studies or employment with non-profit organizations that need individuals with appropriate background in conflict resolution and cross-cultural knowledge and skills.

DEPARTMENT OF PHILOSOPHY AND RELIGIOUS STUDIES
330-941-3448

Professors Bache, Mir, Palmer-Fernandez, Tessier, Waller (Chair), Wan-Tatah; Assistant Professors Mower, Tomhave, Vopat.

The YSU Department of Philosophy and Religious Studies offers a wealth of productive studies for life and technical knowledge for career opportunities. Selected subjects can make an excellent minor complementing any career, and the major in philosophy or religious studies can be a sound preparation for a wide range of graduate programs.

PHILOSOPHY

A major in philosophy is available for students who plan to enter the field of philosophy, law, professional or medical ethics, the ministry, or other fields requiring a liberal arts background.
The major consists of 30 semester hours, including PHIL 2600; 2619; 3700 or 3705; 3702; 3711 or 3780; 4820; and 4861. This program can be completed in eight semesters if students enroll in 16 hours per semester and enroll in a combination of day and evening classes. The hours for the degree could increase depending upon the student’s foreign language placement upon entering YSU.

RELIGIOUS STUDIES

A major in religious studies is available for students who desire to prepare for a career in the ministry, counseling, religious education, social work or any field requiring a liberal arts background. The major consists of 30 semester hours, no more than 9 of which can be taken at the 2600-level. Majors must take REL 2601 and at least one upper-level course in each of the following areas: (1) History of Religion: 3708, 3710, 3720, 3722, 3724, 3726, 3741, 3743; (2) Methodologies in the Study of Religion: 3751, 3754, 3756, 3758, PHIL 3712, ANTH 4815; (3) Scriptural Studies: 3731, 3732, 3733; and REL 4850 and 4871. It is assumed that the remaining hours will be selected in religious studies. In some cases, courses outside religious studies may be accepted as part of the religious studies major if they deepen the student's understanding of religion. All such courses must have the approval of the chair. This program can be completed in eight semesters if students enroll in 16 hours per semester and enroll in a combination of day and evening classes. The hours for the degree could increase depending upon the student’s foreign language placement upon entering YSU.

PRE-COUNSELING TRACKS

The pre-counseling tracks in philosophy and in religious studies are designed to provide core knowledge and basic skills to philosophy and religious studies majors who are considering graduate work in counseling, mental health and other service-based professions. Courses are designed to promote self-awareness, effective decision-making skills, development of positive character traits, core knowledge of historical philosophical ideas and religious and cultural practices, and a deep understanding of rights and responsibilities in relationships across a wide range of contexts and settings.

Philosophy Pre-Counseling Track

The major consists of 30 required semester hours of credit in philosophy; 9 semester hours of designated philosophy electives to include PHIL 2608; in addition to: COUN 1587 and PSYC 1560 as GER prerequisites; and PSYC 3702, 3775 and 5807, and COUN 2650 as required university electives.

Religious Studies Pre-Counseling Track

The major consists of 30 required semester hours of credit in religious studies; 18 semester hours of credit in designated religious studies electives to include REL 2608; in addition to: COUN 1587 and PSYC 1560 as GER prerequisites; and PSYC 3702, 3775 and 5807, and COUN 2650 as required university electives.

Learning Outcomes

The student learning outcomes for the major in philosophy & religious studies are as follows:

- The student will accurately define relevant terms in the discipline of philosophy or religious studies, including terms relating to sub-disciplines, theoretical positions, and historical developments.
- The student will competently utilize principles of critical thinking, including assessment of definitions, recognition of fallacies, and application of the principles of good inductive and deductive reasoning.
- The student will demonstrate a detailed understanding of various philosophical or religious viewpoints and traditions.
- The student will exhibit knowledge of the principles of ethical and/or epistemological reasoning, will competently evaluate ethical and/or epistemological dilemmas utilizing these principles, and will investigate contemporary problems in light of these principles.
- The student will master the basics of theoretical writing, including the development of precise definitions, effective analysis of theoretical positions, and effective development, defense, and critique of arguments.
- The student will construct a rationally sound worldview.

Minors

The department offers minors in religious studies, philosophy, and professional ethics. Contact the department for details.

Graduate Certificate in Bioethics

This two-course sequence (8 semester hours) is designed to meet the needs of working professionals in health care and related fields and others who wish to pursue postgraduate study in bioethics. The sequence will be of particular value to those serving or preparing to serve on institutional ethics committees in hospitals, home health care services, nursing homes, and elsewhere, as well as others—those in local government, insurance, and the media, for example—who wish to explore major questions and recent developments in bioethics. Refer to the Graduate Bulletin for details.

Specialized Centers

The Department of Philosophy and Religious Studies houses The Dr. James Dale Ethics Center and the Center for Islamic Studies.
The Dr. James Dale Ethics Center was founded in 1993 to support the study and teaching of ethics and to promote moral reflection and conduct in personal and professional life. Its activities are guided by the conviction that institutions of higher education play a crucially important role in creating and sustaining a democratic people, concerned not only with private but also common purposes. To accomplish its mission, the Center:

- Sponsors ethics seminars, workshops, and conferences for regional professionals;
- Offers lectures to the University and general community;
- Provides ethics consultation for regional organizations;
- Promotes the scholarship of teaching and learning of ethics.

The director of the Ethics Center is Dr. Gabriel Palmer-Fernandez, Professor of Philosophy and Religious Studies.

The Center for Islamic Studies is devoted to the scholarly study of Islam and to educating the community about Islamic religion, history, and culture. It was created through an agreement between the Youngstown Muslim community and Youngstown State University. To accomplish its mission, the Center:

- Offers lectures to the University and general community;
- Co-publishes (with the Iqbal Academy Pakistan) the Iqbal Quarterly, which aims to introduce the works of the South Asian poet-thinker Muhammad Iqbal to general readers in the English-speaking world;
- Participates in The Pluralism Project of the Department of Philosophy and Religious Studies, which publishes E Pluribus, a newsletter devoted to interfaith activities in the Mahoning Valley and to events of general interest in the field of religious pluralism.

The director of the Center for Islamic Studies is Dr. Mustansir Mir, University Professor of Islamic Studies in the Department of Philosophy and Religious Studies.

The Philosophy Circle

The Philosophy Circle is a group of more than 140 faculty, alumni, and friends whose donations support special departmental activities, including awards for outstanding student papers and funding for the Dr. Thomas and Albert Shipka Speakers Series. The Shipka Speakers Series has sponsored over 30 lectures by outstanding scholars, on topics related to philosophy and religious studies that are of wide interest to both the university and the larger community.

DEPARTMENT OF POLITICAL SCIENCE AND RIGELHAUPT PRE-LAW CENTER

330-941-3436

Professors Sracic (Chair), Porter; Associate Professors Ahuja, Lepak; Assistant Professor Jackson.

POLITICAL SCIENCE

A major in political science comprises 33 semester hours with the requirement that the student complete at least two courses in American Government, two courses from Comparative Government and International Relations, one Political Thought course and a capstone course. This degree may be earned in eight semesters if students enroll in 16 hours per semester and take both day and evening classes.

Learning Outcomes

The department’s learning outcomes for political science majors are as follows:

- Students will be able to summarize fundamental components of knowledge that have developed in relation to areas of political theory, American government, comparative politics, and international relations.
- Students will recognize and explain the fundamental ideas and constitutional principles that have shaped the American Republic, as well as the institutions and behaviors that provide the setting and substance of American politics.
- Students will recognize and explain the basic ideas, problems and processes of comparative politics and international relations relative to issues of Western and non-Western political development, different forms of national government, and foreign policy behaviors relative to a global economy.
- Students will use and apply the Style Manual of the American Political Science Association (APSA) in conjunction with their research and writing skills associated with the creation of credible political science projects.

Related Studies

Related minors in history, economics, geography, and sociology are valuable to the political science major preparing for graduate study in political science, or for a career in journalism, law, public administration or the Foreign Service. The student who plans
to do graduate study in political science or who expects to apply to the Foreign Service should achieve proficiency in at least one modern foreign language.

FOREIGN AFFAIRS

The Foreign Affairs Program provides students with a broad background and understanding of international relations and comparative politics. Students study patterns of conflict and cooperation among nations, international organizations, and other international actors, while developing a broader understanding of the problems of governance, justice, economic development and political stability.

The program is designed to accommodate students seeking careers in such fields as diplomacy, international security, humanitarian and technical assistance, international education, international trade and public affairs.

REQUIRED COURSES: s.h.

Economics:
ECON 1501, Economics in Motion ......................... 3

Geography:
GEOG 2626, World Geography, or one of the following:
GEOG 3713—South America Geography,
GEOG 3715—Middle America Geography or GEOG
3717—European Geog ........................................ 3

History:
HIST 1512 - World Civilizations from 1500 ............. 3

Total Credits for Required Courses .......................... 9

Major Courses s.h.

POL 1550 Introduction to Political Science ........... 3
POL 1560 American Government .......................... 3
POL 2640 Contemporary World Government ........... 3
POL 2660 International Relations ........................ 3
One of the following two courses is required:
POL 3760 International Political Economy ............. 3
POL 3761 U.S. Foreign Policy ............................. 3
POL 3763 International Law ................................ 3
POL 3764 International Organizations ................... 3
POL 3768 International Conflict .......................... 3

One to three courses from field of comparative politics:
POL 3741 Russia & China: From Revolution to Reform. ........................................... 3
POL 3742 Political Development & Political Regimes ........ 3
POL 3744 European Politics .................................. 3
POL 3751 Latin American Politics .......................... 3
POL 3767 Asian Politics ................................... 3

Total Credit Hours ........................................... 18 s.h.

Minor

One Course is required:
POL 1550 Introduction to Political Science ........... 3

One of the following two courses is required:
POL 2640 Contemporary World Governments ....... 3
POL 2660 International Relations ........................ 3

Plus four upper-division courses:

One to three courses from field of international relations:
POL 3760 International Political Economy ............. 3
POL 3761 U.S. Foreign Policy ............................. 3
POL 3763 International Law ................................ 3
POL 3764 International Organizations ................... 3
POL 3768 International Conflict .......................... 3

One to three courses from field of comparative politics:
POL 3741 Russia & China: From Revolution to Reform. ........................................... 3
POL 3742 Political Development & Political Regimes ........ 3
POL 3744 European Politics .................................. 3
POL 3751 Latin American Politics .......................... 3

Total Credit Hours ........................................... 18 s.h.

PUBLIC MANAGEMENT PROGRAM

The public management program is designed to provide a broad background in government and economics for students who plan a career in national, state or local government. The program also gives students exposure to specific skills. The minor offers sufficient flexibility to permit the student to develop a specialization.

This major is designed to prepare students to directly enter the workforce in the public sector, pursue a master of public administration, and pursue careers in the non-profit sector.

Professional training of public servants contributes to the fulfillment of the Mission of Youngstown State University, which states that the “University and public service are seen, not only as interrelated, but also as fundamental to endeavors both within and outside the University.”

Public Management Requirements:

THE MAJOR Courses s.h.

POL 1560 American National Government .......... 3
ECON 2610 Principles of Microeconomics ............. 3
ECON 2630 Principles of Macroeconomics ............. 3
ECON 3702 Public Finance ................................ 3
POL 3718 Public Policy ..................................... 3
POL 3720 Public Management .............................. 3
POL 3722 State & Local Government .................... 3
POL 3724 Public Budgeting ................................ 3
POL 4801 Internship/Capstone .......................... 3-4
Courses

ACCT 2602 Financial Accounting ................................3
MGMT 3725 Fundamentals of Management OR .... 3
MGMT 3750 Human Behavior in Organization ...... 3
ECON 3780-3781 Economic Statistics OR ........... 5
SOC 3701 Social Statistics I ..................................3

Student is to select twelve (12) additional credits to define an area specialty.

The following are examples: Accounting, Finance, Urban Planning, Health Administration, Historic Preservation, Environmental Studies, or other relevant field.

See advisor in the Department of Political Science for details.

COMBINED MAJOR IN SOCIAL STUDIES

The program for the combined major in social studies provides appropriate foundation for the study of law, for graduate work in the disciplines which it includes, and for entry into the civil service field. It can also partially fulfill requirements for teacher licensure in the social sciences.

History 2605 and 2606 are required for the social studies major in addition to courses in economics, geography, history, political science, sociology and anthropology to be distributed as follows:

A. A statistics course from a social science discipline.
B. A minimum of 12 semester hours from 3 of the following disciplines: economics, geography, history, political science and combined sociology/anthropology.
C. A capstone course offered by one of the 3 selected disciplines.
D. A minimum of 48 semester hours, 27 of which must be upper division.

Any course offered by the participating departments may count toward the social studies major.

PRE-LAW

Political Science Faculty, Advisors.

Pre-law advisement is available in the Rigelhaupt Pre-Law Center at the beginning of the student's college study to acquaint the student with the various fields of legal practice which require specialized undergraduate study, and in the junior year to arrange for law school entrance examinations and interviews.

Law school admission standards generally require an undergraduate point average of at least 3.00 and placement above the 50th percentile in the Law School Admissions Test, which is designed to measure capacity for analytic thought and for precision in the use of language. Regional and national law schools may have more rigorous requirements. Students are advised to consult The Official Guide to U.S. Law Schools, a publication of the Law School Admissions Council and the Association of American Law Schools, copies of which are available for use in the Rigelhaupt Pre-Law Center.

DEPARTMENT OF PSYCHOLOGY

330-941-3401

Professors Coldren, Ellyson, Flora, Fry, Gittis, Gray, Haynes (Chair), Kestner, Small, Stringer, White; Associate Professors Clayton, Thomas; Assistant Professors Boron, Giorgetti, Jameson-Cox, Ragozzine, Rosales.

Psychology offers a major leading to the Bachelor of Arts degree as well as a master’s degree program in applied behavior analysis. The Bachelor of Arts degree may be appropriate for students seeking (1) a general liberal arts degree; (2) paraprofessional employment; (3) certification with a B.A. degree to teach psychology in the secondary schools; (4) preparation for graduate study in psychology. The Bachelor of Arts in psychology can be earned in eight semesters if students average 16 hours per semester.

Learning Outcomes

The department’s learning outcomes for psychology majors are as follows:

- Students will describe basic concepts and other information in sub-disciplines within the field. (Representative sub-disciplines include: research methods, statistics, clinical, developmental, social, learning, cognitive, and physiological psychology)
- Students will conduct and provide a written and oral report of a research project using APA style.
- Given typical real-life problems in a sub-discipline within the field, students propose solutions that involve applying psychological concepts.
- Given a psychological concept from a sub-discipline of psychology, students will describe how it could be applied to their daily lives.
- Students will describe changes in thought or attitude or action resulting from information acquired in class readings and discussions relating to diversity.

Bachelor of Arts—Psychology

38 Hours

A. PSYC 1560 (General); 2617 & 2618 (Research Methods and Statistics 1 & 2).

B. At least one course must be taken from each of the following areas: (1) Clinical: PSYC 3702 or 3775. (2) Social/Developmental: PSYC 3700 or 3755 or 3756 or 3757 or 3758 (only two developmental courses may count towards the
major). (3) Learning/Perception/Cognition: PSYC 3705 and 3705L, or 3760 and 3760L, or 3761 and 3761L. (4) Physiological: PSYC 3710 and 3710L or 3728.

C. Two laboratories attached to any psychology course.

D. Capstone course PSYC 4890, 4891H, or 4895.

E. An additional 9 hours in courses applicable to the psychology major, excluding 3770, 3790, 3785H.

F. The remaining 3 hours in coursework may be taken in any course applicable to the major—38 s.h.

Psychology Minor

A minor consists of at least 18 semester hours with grades of “C” or better. Courses taken Credit/No Credit may not be counted toward the minor. At least 1/3 of these hours must be upper division. See the required minor curricula under Developmental Psychology, General Psychology, or Applied Behavior Analysis in the minors section of this bulletin.

RELIGIOUS STUDIES

See Philosophy and Religious Studies.

RUSSIAN

See Foreign Languages.

DEPARTMENT OF SOCIOLOGY, ANTHROPOLOGY, AND GERONTOLOGY

330-941-3442

Professors Gilmartin, Jiang (Chair); Associate Professors D’Apolito, Gordiejew; Assistant Professors Lease, Narcisse, Van Dussen, O’Mansky, Li.

The Department of Sociology and Anthropology offers majors and minors in both of its areas including a minor in forensic anthropology and gerontology. The department also offers a certificate in applied gerontology as well.

SOCIOLOGY

The concentrations in sociology are useful to the professional study of law, teaching, research, and other fields requiring work beyond the bachelor’s level.

Sociology majors are employed in a variety of settings, such as schools, institutions, urban affairs, social security and personnel.

A major in sociology comprises of 30 semester hours. Majors must take SOC 1500, 3701, 3749, 4850, and 4851, in addition to at least 15 semester hours of sociology courses. The program can be completed in eight semesters if students enroll in 16 hours per semester and take both day and evening classes.

Students wishing to minor in sociology must complete 18 s.h. in an approved designated minor. Students are responsible for satisfying all prerequisites and maintaining a “C” or better in all minor requirements and cannot take courses on a "CR/NC" basis. Minors in sociology offered from the department are as follows:

- General Sociology
- Social Institutions
- Gerontology
- Social Stratification
- Applied Sociology

See department for course requirements.

Internships in Sociology

Internships are available to all sociology majors. Internships may be either paid or unpaid. Sociology majors have the opportunity to apply the application of sociological knowledge during an internship and work in a variety of settings such as the Mahoning County Planning Commission, Mahoning County Sheriff’s Office, and Park Vista Retirement Community.

Learning Outcomes

The department’s learning outcomes for sociology majors are as follows:

- Students can demonstrate understanding of the discipline of sociology and its role in contributing to our understanding of social reality.
- Students can demonstrate the role of theory in sociology.
- Students can demonstrate understanding of the role of research in sociology, including critical thinking, computer, and written and oral communication skills.
- Students can demonstrate knowledge and comprehension of core sociological concepts such as culture, social change, globalization, socialization, stratification, social structure, institutions, and differences by race/ethnicity, gender, age, and class.
- Students can articulate at least one substantive area within sociology in depth, e.g., medical sociology, urban sociology, medical sociology, applied sociology, stratification, complex organizations, or race, gender and class.
CURRICULUM

Suggested Course Schedule for Sociology Majors

YEAR ONE
FALL SEMESTER

s.h.
Writing I — ENGL 1550* ........................................ 3
GER Math — MATH 2623* .................................... 3
GER Societies and Institutions (SI) ...................... 3
Foreign Language — 1500* .................................. 3
Introduction to Sociology — SOC 1500 (SI) .......... 3
Total ..................................................................... 15

SPRING SEMESTER

s.h.
Writing II — ENGL 1551* .................................... 3
GER Speech — COMM 1545 ................................. 3
Natural Sci Lab ................................................... 4
Foreign Language — 2600* ................................. 3
Sociology Elective (Upper Division) .................... 3
Total ..................................................................... 16

YEAR TWO
FALL SEMESTER

s.h.
GER Societies and Institutions (SI) ...................... 3
GER Natural Science (NS) ................................. 3
GER Art and Lit. Perspectives (AL) ....................... 3
Foreign Language — 1545* ................................. 3
GER Pers and Soc Respons (PS) ......................... 3
Total ..................................................................... 15

SPRING SEMESTER

s.h.
GER Domain (AL, SI, NS) ................................. 3
GER Domain (AL, SI, NS) ................................. 3
Sociology Domain (Upper Division) ..................... 3
GER Art. And Lit. Perspectives (AL) ..................... 3
GER Pers and Soc. Respons (PS) ........................ 3
Total ..................................................................... 15

YEAR THREE
FALL SEMESTER

s.h.
Social Theory — SOC 3749 ................................. 3
Sociology Elective (Upper Division) ..................... 3
Minor ................................................................. 3
Elective .............................................................. 3
Elective .............................................................. 3
Total ..................................................................... 15

SPRING SEMESTER

s.h.
Social Statistics I - SOC 3701 ............................. 3
Sociology Elective (Upper Division) ..................... 3
Minor ................................................................. 3
Minor ................................................................. 3
Elective .............................................................. 3
Total ..................................................................... 15

YEAR FOUR
FALL SEMESTER

s.h.
Research Methods — SOC 4850 ............................ 3
Sociology Elective (Upper Division) ..................... 3
Minor ................................................................. 3
Minor (Upper Division) ...................................... 3
Elective .............................................................. 3
Total ..................................................................... 15

SPRING SEMESTER

s.h.
Social Research — SOC 4851 (capstone) ............... 3
Elective .............................................................. 3
Elective .............................................................. 3
Elective .............................................................. 3
Minor (Upper Division) ...................................... 3
Elective .............................................................. 3
Total ..................................................................... 18

Total Hours For Graduation .............................. 124

*Placement exam in English, math, and foreign languages required before registration for classes.

ANTHROPOLOGY

A major in anthropology can take several directions. A background in anthropology can be immediately useful in many professional fields such as law, elementary and secondary education, urban affairs, administration, business and industry. Others can use the bachelor’s degree as a first step in acquiring an advanced degree and ultimately teaching and doing research at the college or university level. Recent evidence indicates that a large number of corporate managers have degrees in anthropology.

A major in anthropology comprises 40 semester hours. Majors must take Anthropology 1500, 3701, 3702, 3703, 3705, 4801, 4850, 4851, one area course from each of the three subfields, and two upper-division anthropology electives. This program can be completed in eight semesters if students enroll in 16 hours per semester and take both day and evening classes.

Students wishing to minor in anthropology must complete 18 s.h. in an approved designated minor. Students are responsible for satisfying all prerequisites and maintaining “C” or better in all minor requirements and cannot take courses on a “CR/NC” basis. Minors in anthropology offered from the department are as follows:

- General Anthropology
- Archaeology
- Cultural Anthropology
- Forensic Anthropology

See department for course requirements.
Internships in Anthropology

Internships are available to all Anthropology majors. Internships may be either paid or unpaid. Anthropology majors have the opportunity to apply the application of anthropological knowledge during an internship at the Mahoning County Coroner’s Office.

Learning Outcomes

The department’s learning outcomes for anthropology majors are as follows:

- Students can demonstrate knowledge and comprehension of the fundamental principles and concepts of anthropology.
- Students can demonstrate knowledge of the anthropological discipline, including the holistic four-field approach.
- Students can demonstrate understanding of the scientific process, anthropological theories, research methods, and ethics.
- Students can describe and demonstrate the importance of culture, cultural variation, and culture change in global context.
- Students can demonstrate knowledge and understanding of evolutionary biology, including the mechanisms of evolutionary change.
- Students can articulate in depth at least one of the following subfields within anthropology: archaeology, biological anthropology, cultural anthropology.

Curriculum

Suggested Course Schedule For Anthropology Majors

<table>
<thead>
<tr>
<th>YEAR ONE</th>
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<tbody>
<tr>
<td>FALL SEMESTER</td>
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</tr>
<tr>
<td>English 1550*</td>
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<tr>
<td>Math 2623*</td>
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<td>GER Domain (SI)</td>
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<tr>
<td>Foreign Language 1550*</td>
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<tr>
<td>Anthropology 1500 (SI)</td>
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<tbody>
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<td>Comm 1545</td>
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<tr>
<td>Foreign Language 2600*</td>
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<tr>
<td>Anthropology 3705 (P)</td>
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<tr>
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<td>GER Domain (NS) (A&amp;S 2600)</td>
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<td>Elective</td>
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<tr>
<td>GER Domain (PS)</td>
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<td>Anthropology 3702 (P)</td>
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<td>Anthropology 3703 (P)</td>
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<td>GER Domain (ST)</td>
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<td>Anthropology 3701</td>
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<tr>
<td>Minor</td>
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<tr>
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<tr>
<td>FALL SEMESTER</td>
<td>s.h.</td>
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<tr>
<td>Anthropology 4850 (P)</td>
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<tr>
<td>Anthropology 4801 (P)</td>
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<td>Minor (Upper Division)</td>
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<td>Minor (Upper Division)</td>
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<tr>
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<tr>
<td>Minor (Capstone)</td>
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<tr>
<td>Anthropology 4851 (P)</td>
<td>3</td>
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<tr>
<td>Total</td>
<td>16</td>
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</table>

Total Hours For Graduation | 124 |

*Placement exam in English, math and foreign language required before registration of classes.
a) Student may test in ENGL 1540T/1540 or just 1540. These need to be taken before entry in 1550. ENGL 1550 & 1551 must be completed by 62 SH.

b) FNGL through level 2600 required unless satisfied through placement exam.

A grade of C or better is required in the major and minor.

Courses in the major cannot be used in the GER Domains. Must use two departments to satisfy each domain. AL, SI, NS must equal a minimum of eight classes. Domains may be taken in any order.

All non B science majors must take A&S 2600 unless they fulfill the laboratory requirement through substitute courses.

Classes taken and/or repeated out of sequence will not count toward graduation. Check prerequisites.

**GERONTOLOGY**

Gerontology is the interdisciplinary study of aging and is a rapidly growing field. The gerontology major prepares the students for a career in the field of aging. Since aging is a multifaceted, complex phenomenon, an interdisciplinary training in gerontology will give students an edge in working with the aging population. The field of aging provides diverse occupational opportunities in health professions, non-profit organizations, recreation and leisure, for profit businesses, education, research, government, and service providers. Settings include community, human service and religious organizations, government agencies, health and long-term care facilities, retirement communities, academic and research settings, business, industry, legal, and professional organizations.

A major in Gerontology comprises of 49 semester hours. Majors must take GERO 1501, 3701, 3703, 3755, 4801, 4821, 4850, 4851, SOC/GERO/POL 3757 or POL 3717 or SCWK 3730, FNUTR 3720, PSYC 3755, 4850, 4851, SOC/GERO/POL 3757 and 4857. In addition to at least 12 semester hours from a list of gerontology related electives. The program can be completed in eight semesters if students enroll in 16 hours per semester and take both day and evening classes.

**Learning Outcomes**

The department’s learning outcomes for gerontology majors are as follows:

- Students can demonstrate knowledge and understanding of the discipline of gerontology and its interdisciplinary approach to aging and society.
- Students can demonstrate understanding of the diversity and complexity of aging in our society and dispel ageist stereotypes about aging and older adults.

**Curriculum**

**Suggested Course Schedule for Gerontology major**

<table>
<thead>
<tr>
<th>YEAR ONE</th>
<th>FALL SEMESTER</th>
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<tbody>
<tr>
<td>ENGL 1550</td>
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<td>MATH 2623</td>
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<td>GERO 1501</td>
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<td>SOC 1500</td>
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<tr>
<td>ENGL 1551</td>
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<td>COMM 1545 &amp; 1545L</td>
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<td>FNGL 2600</td>
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<td>PSYC 1560</td>
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<td>GERO Elective</td>
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<tr>
<td>Writing Intensive</td>
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<tbody>
<tr>
<td>FNUTR 3720</td>
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<tr>
<td>Oral Intensive</td>
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<tbody>
<tr>
<td>GERO/SOC 3703 (SI)*</td>
<td>3</td>
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<tr>
<td>PSYC 3757</td>
<td>3</td>
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<tr>
<td>GER Domain (AL, NS, SI)*</td>
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<td>GER Domain (AL, NS, SI)*</td>
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<tr>
<td>SOC/GERO 3755</td>
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<td><strong>15</strong></td>
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</table>
SPRING SEMESTER
GERO/SOCIO 4801 ..................................................... 3
PSYC 4857 ..................................................................... 3
SOCIO/GERO 3701 ..................................................... 4
GER Domain (AL, NS, SI)*......................................... 3
SOCIO/GERO 3757 or POLIT 3717 or SCWK 3730  3
Total.............................................................................16

YEAR FOUR
FALL SEMESTER
s.h.
GERO 4821 (internship) ............................................. 3
GER Domain (ST) ........................................................ 3
SOCIO/GERO 4850 (Writing Intensive) ...................3
GERO Elective (Upper Division) ..............................3
Elective (Upper Division)........................................... 3
Total .............................................................................15

SPRING SEMESTER
Elective (Upper Division)........................................... 3
GERO 4852 Capstone..................................................3
GERO Elective (Upper Division) ..............................3
Critical Thinking Intensive ........................................3
Elective (Upper Division)........................................... 3
Total.............................................................................15

Total Hours For Graduation..................................124

Certificate in Applied Gerontology
A Certificate in Applied Gerontology comprises 21 semester hours. Students must take GER/SOC 3703, SOC 4801, PSYC 3757 and 4857, and complete fieldwork in GER/SOC 4821 or PSYC 3720 for 3 semester hours either through Sociology, Anthropology, and Gerontology Department or Psychology Department. Students must maintain a “C” or better in all course work, satisfy all prerequisites, and cannot take a course on a “CR/NC” basis.

SPANISH
See Foreign Languages.

WOMEN’S STUDIES

The University offers a minor in women’s studies with the advice and approval of the chair of the department in which the student is majoring. The minor requires completion of 18 hours. For information about the Women’s Studies minor, contact the director.

Lower-Division Courses
Women’s Studies 2601. Introduction to Women’s Studies. 3 s.h.

English 2617. Women in Literature. 3 s.h.

Foreign Languages 2660. Women in the Ancient World. 3 s.h.

Sociology 2640. Women in Society. Prereq.: SOC 1500. 3 s.h.

Upper-Division Courses
Biology 3718. Women, Science, and Technology. Prereq.: ENGL 1550; one Societies and Institutions General Education course, one Natural Sciences General Education course, or substitutes. 3 s.h.

Child and Family 3731: Individual & Family Development. Prereq.: ENGL 1551 and PSYC 1560. 3 s.h.

English 3732. Images of Women. Prereq.: ENGL 1551. 3 s.h.

History 3726. History of Women in the United States. Prereq.: HIST 2605 or 2606. 3 s.h.

Women’s Studies 3750. Special Topics in Women’s Studies. Prereq.: WMST 2601. 3 s.h.

History 3787. History of Women in Europe. Prereq.: HIST 1512. 3 s.h.

Management 3755. Managing Diversity. Prereq.: Junior standing and a declared major. 3 s.h.

Philosophy 3709. Feminist Philosophy. Prereq.: PHIL 2600 or WMST 2601. 3 s.h.

Psychology 3730. Psychology of Women. Prereq.: PSYC 1560. 3 s.h.

Psychology 3730L. Psychology of Women Laboratory. Concurrent: PSYC 3730. 1 s.h.

Religious Studies 3754. Feminism, Ecology and Religion. Prereq.: REL 2601 or 2631 or WMST 2601. 3 s.h.

Human Ecology 5893: Work and Family. Prereq.: CHFM 3731 or SOC 3705 or PSYC 3707. 3 s.h.

Women’s Studies 4850. Senior Research Project. Prereq.: Senior standing and completion of a minimum of 10 s.h. in Women’s Studies. 1-3 s.h.

The student may select one of the following courses when offered with the appropriate focus to complete the 14 hours for a minor.

Africana Studies 3700. Black Studies Colloquium 1. Prereq.: AFST 2600. 3 s.h.

Africana Studies 3701. Black Studies Colloquium 2. Prereq.: AFST 2601. 3 s.h.

American Studies 3701. Approaches to American Studies. 3 s.h.

Art History 4880. Special Topics in Art History. Prereq.: ART 1541, 1542, or consent of instructor. 3 s.h.
English 3790. Selected Topics in Multicultural Studies. Prereq.: ENGL 1551. 3 s.h.

Foundations of Education 5880. Special Topics in Foundations of Education. Prereq.: Permission of chairperson. 2 s.h.

History 4801. Select Problems in American History. Prereq.: Consent of instructor. 3 s.h.

Music History 5878. Selected Topics in Music History. May be repeated once with different topic. Prereq.: MUTC 2632 and MUHL 3774. 3 s.h.

4820. Seminar in Philosophy. Prereq.: One 2600-level PHIL course. 3 s.h.

Psychology 4850. Seminar in Psychology. Prereq.: Senior standing in psychology. 2 s.h.

Religious Studies 4850. Seminar in Religious Studies. Prereq.: One 3700-level REL course. 3 s.h.

Sociology 4851. Social Research. Prereq.: SOCIO 4850. Listed also as ANTH 4851. 3 s.h.
The College of Science, Technology, Engineering, and Mathematics (STEM)

Martin A. Abraham, Dean

The College of Science, Technology, Engineering, and Mathematics (STEM) is the academic unit of the University comprising the following departments: Biological Sciences, Chemistry, Civil/Environmental and Chemical Engineering, Computer Science and Information Systems, Electrical and Computer Engineering, Engineering Technology, Geological and Environmental Sciences, Mechanical and Industrial Engineering, Mathematics and Statistics, and Physics and Astronomy.

Formed in 2007 through an administrative reorganization, the STEM College is committed to strengthening core areas of its departments as well as facilitating collaborations between its faculties and students at all levels in their disciplines. Its formation is a bold initiative in coupling higher education to economic development by enhancing research activities and collaboration with industry.

College of STEM Mission

The College of STEM is committed to furthering the mission of Youngstown State University by delivering integrated programs of excellence to an engaged learning community. The College uses
state-of-the-art technology in teaching and research to meet the educational objectives of students, both undergraduate and graduate, enrolled in all its programs. The College fosters intellectual growth through integration of teaching, scholarship, and service that expands the talents of its constituencies—including students, faculty, business, industry, and government—with synergistic activities in and beyond the classroom; prepares our graduates for a multidisciplinary world through a flexible and diverse curriculum; and meets the need for a well-educated, skilled workforce for economic growth with industrial partnerships, research, and scholarship.

Core Values
The College of STEM fully subscribes to the core values of the University—the centrality of students; excellence and innovation; integrity/human dignity; and collegiality and public engagement.

- We are a learning-centered College committed to the intellectual, ethical, and career growth of all learners, both inside and outside the classroom.
- We foster intellectual inquiry, exploration, and discovery that transcends traditional boundaries and facilitates interdisciplinary scholarship. We expand and apply knowledge and encourage creativity through research and scholarship.
- We are committed to the social development of students, by promoting ethical behavior and collegiality in all endeavors, and to enrichment of the University through diversity of the faculty and student body.
- We enhance the quality of life and economic health of the region, the state, and beyond by providing students with the knowledge and skills to meet the challenges of modern society, and by providing business, industry, government, K–12 schools, and the public with technical expertise and leadership to support innovation and growth.

Degrees/Programs
The College offers four bachelor’s degrees: Bachelor of Arts (B.A.), Bachelor of Engineering (B.E.), Bachelor of Science (B.S.), and the Bachelor of Science in Applied Science (B.S.A.S.). It offers three associate degrees: Associate in Arts (A.A.), Associate in Applied Science (A.A.S.), and the Associate in Technical Studies (A.T.S.). Also, in conjunction with FirstEnergy Corporation, two options are available for lineworker and power plant technology.

Please visit our website at www.ysu.edu/power-systems for more information regarding the lineworker and power plant technology programs, or see p. 232 of this Bulletin.

A certificate program is offered in construction management technology.

Students whose needs are not met by existing conventional programs may wish to investigate and apply for the Individualized Curriculum Program (see Academic Policies and Procedures).

Degree Requirements
Requirements for completion of a baccalaureate degree and an associate degree within the College of STEM include all University requirements detailed in the Academic Policies and Procedures section of the Bulletin (i.e., graduation and general education requirements, course levels requirements including majors [and minors, where applicable] grade point average, residency, and degree applications). Specific requirements for each major in the College of STEM are listed by department or school. Consult the Rayen School of Engineering and Engineering Technology section in the Bulletin for additional graduation requirements for the B.E. degree (see p. 214).

Minors are not required for every program/major in the STEM College. Consult the curricula listed in the department sections of the bulletin for specific requirements for each major. For programs/majors requiring minors, at least eighteen (18) semester hours are required for the minor, and one-third of the hours must be upper-division. Minors must be from the approved list on p. 238.

Prospective Teachers. Prospective elementary or secondary teachers may work toward a B.A., B.S., or B.S. in Ed. degree. Prospective high school teachers with major concentration areas offered in the College of STEM are advised by those departments, except for the requirements for teacher certification, for which academic advisement is provided in the Beeghly College of Education.

Foreign Language Requirement for the Bachelor’s Degree
All candidates for the B.A. and B.S. degree in the College are required to complete the elementary (1550) and the intermediate level (2600) of any foreign language offered. Students with a foreign language background may desire to take the foreign language placement test in order to place into the intermediate level (2600) to satisfy the requirement. It may be possible to satisfy the foreign language requirement through appropriate college transfer coursework and credit by exam.

Candidates for the B.E. degree and candidates for the B.S.A.S. degree do not have a foreign language requirement.

Associate of Arts Concentration in the College of STEM
Science Concentration. Courses must be taken from among the following disciplines: astronomy, biology, chemistry, physical geography, geology, and physics.
DEPARTMENT OF BIOLOGICAL SCIENCES
330-941-3601

Professors Chuey, Cooper, Fagan, Leipheimer, Krontiris-Litowitz, Toepfer, Usis, Walker (chair); Associate Professors Asch, Diggins, Fagan, Johnston, Lorimer, Womble; Assistant Professors Butcher, Caguiat, Min, Renne, Tall.

Courses in the Department of Biological Sciences may be applied toward a Bachelor of Science or a Bachelor of Arts degree. The department offers specialized courses in three major divisions: molecular biology and microbiology, physiology and anatomy, and evolution, ecology and environmental biology. The department offers courses to prepare a student for a wide variety of fields and future careers including dentistry, botany, health-related careers, physical therapy, nursing, medicine, veterinary medicine, medical technology, microbiology, molecular biology, biomedical research and biotechnology. Advisement is available concerning course selection appropriate for a specific field in biology and in the choice of a minor or minors. These degrees may be earned in eight semesters if students average 16 hours per semester.

BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES

The Bachelor of Science degree is recommended for those who wish to pursue careers in the biological sciences, medicine, dentistry or other related health fields.

Learning Outcomes

The student learning outcomes for the major in biological sciences are as follows:

B.S. degree option

- Students will be prepared for entry into professional health or research related schools, post-graduate (M.S.) programs, or the workplace.
- Students will master the subjects found on standardized tests (molecular biology, physiology, immunology) required for entrance into professional schools (MCAT, GRE, etc.).
- Students will demonstrate an understanding of fundamental biological principles and their application.
- Students should be able to reason critically, both individually and in collaboration with other students.

Curriculum

The B.S. degree in biological sciences requires a minimum of 37 semester hours from within the Department of Biological Sciences. (Courses at the 1000 level are not applicable to a Bachelor of Science degree.) The program satisfies the GER oral, writing, critical thinking intensives requirement.

All biological sciences majors must take the following courses for the B.S. degree:

1) BIOL 2601 General Biology: Molecules and Cells, 4 s.h.; and BIOL 2602 General Biology: Organisms and Ecology, 4 s.h. The general biology courses are prerequisites for genetics and all core and upper-division courses.

2) BIOL 3721 Genetics 3 s.h.

3) Core Courses: One course must be taken from two of the following groups for a total of two courses: (7-9 s.h.)

   Group A: Cell Biology: Fine Structure (BIOL 3711, 3 s.h.), Microbiology (BIOL 3702, 4 s.h.)
   Group B: Human Physiology (BIOL 3730, 5 s.h.)
   Group C: either Plant Diversity (BIOL 3740, 4 s.h.) or Animal Diversity (BIOL 3741, 4 s.h.)

4) 15-17 semester hours of courses in the Department of Biological Sciences at the 3000-5000 level. A minimum of two of these courses must have a laboratory component, with at least one lab course at the 4000-5000 level.

5) Capstone course (BIOL 4861) 2 s.h.

Additional required course work in the sciences.

Chemistry—Chem. 1515 & 1515L and 1516 & 1516L, General Chemistry I and II; 3719 & 3719L and 3720 & 3720L, Organic Chemistry I and II. (Chem. 3785, Biochemistry, strongly recommended)

Physics—Physics 1501, 1501L, 1502, and 1502L (Fundamentals of Physics I and II and Fundamentals of Physics I and II Labs)

Math—Math 1570, Applied Calculus I, or Math 1571 (Calculus I) and Math 3717 (Statistics)

BACHELOR OF ARTS IN BIOLOGICAL SCIENCES

The Bachelor of Arts is recommended only for those who plan careers in business or secondary education careers related to the Biological Sciences.

Learning Outcomes

The department’s learning outcomes for the B.A. in biology are as follows:

- Students will be fluent in the terminology of the biological sciences.
- Students will be competitive for entry into the workplace.
- Students will be familiar with the scientific process and the process of hypothesis testing.
• Students should be able to reason critically, both individually and in collaboration with other students. All Biological Sciences majors must take the following courses for the B.A. degree:

Curriculum

The B.A. degree in biological sciences requires a minimum of 32 semester hours from within the Department of Biological Sciences. (Courses at the 1000 level are not applicable to a Bachelor of Arts degree.)

All biological sciences majors must take the following courses for the B.A. degree:

1) BIOL 2601 General Biology: Molecules and Cells, 4 s.h. and BIOL 2602 General Biology: Organisms and Ecology 4 s.h. The General Biology courses are prerequisites for all core and upper division Biology courses.

2) Core courses: One course must be taken from two of the following groups: (7-9 s.h)
   - Group A—either Cell Biology: Fine Structure (BIOL 3711) or Genetics (BIOL 3721)
   - Group B—Human Physiology (BIOL 3730)
   - Group C—either Plant Diversity (BIOL 3740) or Animal Diversity (BIOL 3741)

3) 13-15 semester hours of courses in the Department of Biological Sciences at the 3000-5000 level. At least two of these courses must have a laboratory component.

4) Capstone course (BIOL 4861) 2 s.h.

5) Additional required course work: Chemistry: CHEM 1515/1515L and CHEM 1516/1516L are required.

   Organic Chemistry (CHEM 3719, 3719L, 3720, and 3720L) and Fundamentals of Physics (PHYS 1501, 1501L, 1502, and 1502L) are strongly recommended.

   Students seeking admission to medically related professional schools should complete the B.S. program. Elective courses under either degree may be in any discipline; however, advanced chemistry, mathematics and psychology are particularly recommended.

   The mathematics, physics and chemistry courses may not be taken under the credit/no credit option. (For general University requirements, see the Academic Policies and Procedures section of this Bulletin).

   Recommended core curriculum meeting science requirements of medically related and other professional schools.

Biology
2601 General Biology: Molecules and Cells
2602 General Biology: Organisms and Ecology

Core courses
3711 Cell Biology: Fine Structure
3721 Genetics
3730 Human Physiology

Additional courses
3702 Microbiology
3703 Clinical Immunology
3705 Introduction to Human Gross Anatomy
4813 Vertebrate Histology
4890 Molecular Genetics
5832 Principles of Neurobiology
5834 Advanced Systems Physiology
5836 Cell Biology: Molecular Mechanisms

Chemistry
1515 General Chemistry I
1516 General Chemistry II
3719 Organic Chemistry I
3720 Organic Chemistry II
(Biochemistry Chem 3785, is strongly recommended)

Physics
1501 Fundamentals of Physics I
1502 Fundamentals of Physics II

Mathematics
1570 Applied Calculus I or 1571 Calculus I
3717 Statistical Methods

BOTANY
See Biological Sciences.

DEPARTMENT OF CHEMISTRY
330-941-3663

Professors Hunter, Linkous, Mettee, Mincey (Chair), Norris, Wagner; Associate Professors Balendirar, Curtin, Jackson, Leskiw, Lovelace-Cameron, Serra, Simeonsson; Assistant Professors Stourman, Wang.

The Bachelor of Science degree is recommended for those who plan to make a career in chemistry; a recommended program which meets the standards of the American Chemical Society is provided below. The Bachelor of Arts degree is recommended for those who plan to go into a medical, pre-pharmacy, or dental field and for those who plan to enter business or secondary education careers related to chemistry. The required courses for a B.S. degree with a major in chemistry are listed in the B.S. curriculum. The courses required for a B.A. degree are those listed in the B.A. curriculum below. Chemistry majors may not count Chemistry 1500 toward the major. These degrees may be earned in eight semesters if students average 16 hours per semester.
Learning Outcomes
The undergraduate student learning outcomes for the major in chemistry are as follows:

- Students will demonstrate independent and critical thinking.
- Students will understand the fundamentals of modern chemical instrumentation.
- Students will understand the basic principles of the chemical disciplines included in their curriculum.
- Students will effectively communicate their ideas both orally and in writing.

Students in pre-professional programs such as pre-optometry may obtain appropriate curricula and advisement in the Department of Chemistry.

The segments of chemistry courses extending through two semesters must be taken in sequence unless otherwise indicated.

Eye protection and lab coats must be worn in chemistry laboratories at all times.

Each student majoring in chemistry will be assigned a faculty advisor by the department. The advisor will discuss the overall curriculum necessary for a degree in chemistry and will assist the student in the preparation of a suitable course sequence and choice of a minor or minors.

All chemistry majors are urged to consult their advisors regularly to avoid curricular problems.

In both of the following curricula, the electives must satisfy the general requirements for the degree sought (see Degree Requirements). German is strongly recommended for meeting the foreign language requirement in the B.S. curriculum.

Recommended Curriculum Leading to a B.S. Degree with a Major in Chemistry

Core Courses

YEAR ONE

FALL I

Courses s.h.
CHEM 1515 + 1515R ....................................................5
MATH 1571 ..................................................................4

SPRING I

Courses s.h.
CHEM 1516 + 1516R ....................................................5
MATH 1572 ..................................................................4

YEAR TWO

FALL II

Courses s.h.
CHEM 3719 + 3719R ....................................................5
CHEM 2604 ..................................................................5
PHYS 2610 + 2610L ......................................................5
MATH 2673 ..................................................................4

YEAR THREE

FALL III

Courses
CHEM 3720 + 3720R ....................................................5
PHYS 2611 + 2611L ......................................................5

SPRING III

Courses s.h.
CHEM 3739 ..................................................................4
CHEM 3785 ..................................................................3

Credit Hour Summary
Chemistry Hours in BS-Core: ..................................39
Chemistry Elective Hours: .......................................12
Capstone Course Hours: ..........................................+3
Total Hours in Chemistry: ......................................54

Other major-required hours: ................................+22
(Math/Physics)
Total Hours in Major: ............................................76

B.S. CHEM Electives
3764 Chemical Toxicology................................3
3786 Biochemistry 2 .............................................3
3790 Undergraduate Seminar .........................1
4860 Regulatory Aspects of Industrial Chemistry .............................................1
5804 Chemical Instrumentation .........................4
5821 Intermediate Organic Chemistry ................3
5822 Advanced Organic Lab .................................4
5830 Intermediate Inorganic Chemistry ............2
5831 Inorganic Lab ....................................................2
5832 Solid State Structural Methods ...................3
5836 Chemical Bonding and Structure ............3
5861, 5862 Polymer Science 1, 2 ....................3 + 3
5876 Enzyme Analysis ............................................2

Recommended Curriculum Leading to a B.A. Degree with a Major in Chemistry

Core Courses

YEAR ONE

FALL I

Courses s.h.
CHEM 1515 + 1515R ....................................................5
MATH 1571 ..................................................................4

SPRING I

Courses s.h.
CHEM 3740 ..................................................................4
CHEM 3729 ..................................................................3

In addition to BS core, BS majors must complete twelve (12) hours of upper-division chemistry electives (from the list below), four (4) hours of which must be in upper-division laboratory. Majors must also complete the capstone sequence CHEM 4850 + 4850L.

Credit Hour Summary
Chemistry Hours in BS-Core: ..................................39
Chemistry Elective Hours: .......................................12
Capstone Course Hours: ..........................................+3
Total Hours in Chemistry: ......................................54

Other major-required hours: ................................+22
(Math/Physics)
Total Hours in Major: ............................................76

B.S. CHEM Electives
3764 Chemical Toxicology................................3
3786 Biochemistry 2 .............................................3
3790 Undergraduate Seminar .........................1
4860 Regulatory Aspects of Industrial Chemistry .............................................1
5804 Chemical Instrumentation .........................4
5821 Intermediate Organic Chemistry ................3
5822 Advanced Organic Lab .................................4
5830 Intermediate Inorganic Chemistry ............2
5831 Inorganic Lab ....................................................2
5832 Solid State Structural Methods ...................3
5836 Chemical Bonding and Structure ............3
5861, 5862 Polymer Science 1, 2 ....................3 + 3
5876 Enzyme Analysis ............................................2
YEAR TWO
FALL II
Courses s.h.
CHEM 3719 + 3719R ....................................................5
CHEM 2604 .................................................................5
PHYS 2610 + 2610L..................................................5

SPRING II
Courses s.h.
CHEM 3720 + 3720R ....................................................5
PHYS 2611 + 2611L ......................................................5

YEAR THREE
FALL III
Courses s.h.
CHEM 3739 .................................................................4
In addition to B.A. core, B.A. majors must complete
nine (9) hours of upper-division chemistry electives
(from the list below). Majors must also complete the
capstone CHEM 4850.

Credit Hour Summary
Chemistry Hours in BA-Core: .................................29
Chemistry Elective Hours: .........................................9
Capstone Course Hours: ...................................+1
Total Hours in Chemistry: .................................39
Other major-required hours: .................................+18
(Math/Physics)
Total Hours in Major: ................................................57

B.A. CHEM Electives
Courses s.h.
3729 Inorganic Chemistry ........................................3
3740 Physical Chemistry 2 ....................................4
3764 Chemical Toxicology ...................................3
3785, 3786 Biochemistry 1, 2 ................................3, 3
3790 Undergraduate Seminar ..............................1
4850L Research Lab ..............................................2 - 3
4860 Regulatory Aspects of Industrial
Chemistry .................................................................1
5804 Chemical Instrumentation ............................4
5821 Intermediate Organic Chemistry ...............3
5822 Advanced Organic Lab ..................................4
5830 Intermediate Inorganic Chemistry ...............2
5831 Inorganic Lab ................................................2
5832 Solid State Structural Methods .....................3
5836 Chemical Bonding and Structure .................3
5861, 5862 Polymer Science 1, 2 .......................3, 3
5876 Enzyme Analysis ............................................2

COMBINED B.S./M.S. PROGRAM
IN CHEMISTRY

This is a five-year program. Prospective students
seeking admission to the program may submit an
application to the Department of Chemistry during
their senior year in high school. Students in the pro-
gram start graduate studies after three years. They
will normally receive the B.S. degree in chemistry
after 3 years and the M.S. degree after 5 years.

COMBINED B.S./M.D.
PROGRAM

This is a six- or seven-year program open to gradu-
ating high school seniors; however, if a student has
already graduated from high school and has taken no
coursework for college-level credit, she or he is still
eligible to apply to the program. After two to three
years of college-level credit, students in the program
are then eligible for admission to the second, or med-
ical school, phase. Each student successfully complet-
ing the program will be awarded the B.S. degree in
combined science from Youngstown State University
and the M.D. degree from the Northeastern Ohio
Universities College of Medicine (NEOUCOM).
(See Northeastern Ohio Universities College of
Medicine, on p. 74.)

DEPARTMENT OF
COMPUTER SCIENCE AND
INFORMATION SYSTEMS
330-941-3134

Professor Schueller; Associate Professors Bodnovich
(Chair), Hogue, Kramer, Lazar, Sullins; Assistant Pro-
fessors Arslanyilmaz, Gaydos, Harper, Perera, Zhang;
Instructor Ickert.

The Department of Computer Science and Infor-
mation Systems offers a wide range of educa-
tion programs. The Computer Science program is
offered as the Bachelor of Science degree and is a
traditional, analytical program which involves exten-
sive computer programming and support courses in
mathematics. The Computer Information Systems
program is offered as the Associate in Applied Sci-
cence and the Bachelor of Science in Applied Science.
Coursework involves extensive programming with
an emphasis on applied business programming. The
Information Technology program is also offered as
the Associate in Applied Science and the Bachelor of
Science in Applied Science. Coursework emphasizes
applying high-end computer applications and system
management.

Curriculum sheets and suggested schedules for
each program may be obtained from the department
office in Meshel Hall or on the Department’s web site,

COMPUTER SCIENCE

The Computer Science program leads to the degree
of Bachelor of Science. The flexibility of the program
allows the student many choices upon graduation.
Three major possibilities are: first, graduates will
be qualified to pursue graduate work in computer
science; second, all graduates will be qualified to
work as systems analysts, systems programmers, or
software engineers. The student may study another discipline as a minor field to become an application programmer in that discipline. This degree may be earned in eight semesters if students average 16 hours per semester.

**Learning Outcomes**

Computer science students in the BS degree program will:

- experience at least one large computer-based system.
- communicate effectively with written reports.
- be able to analyze, design, implement and test computer programs by using the appropriate data structures and algorithms.
- obtain full-time employment as programmers, systems analysts, computer specialists and in other closely related fields or/and acceptance to graduate programs.

In addition to completing all general University requirements, students wishing to receive the Bachelor of Science in computer science must complete the following:

1. CSIS 2610, 3700, 3701, and 3740.
2. CSCI 3710, 5806, 5814, 5870, and at least 2 s.h. of 4890.
3. At least 12 additional semester hours of upper-division CSCI or CSIS courses not including CSCI 4885 or 4886. CIS or IT courses numbered 4800 and above may also be used as electives with advisor approval.
4. A minor in mathematics comprising at least 18 semester hours to include MATH 1571, 1572, 3720, and either STAT 3743 or MATH 3760.
5. ENGL 3743, PHIL 2619, and PHIL 2625.
6. University general education requirements in essential skills, knowledge domains, and skill-intensive courses.
7. College requirements of study in a foreign language equivalent to 2600.

**COMPUTER INFORMATION SYSTEMS**

The computer information systems program offers students the flexibility of earning either a two-year AAS degree or continuing for an additional two years to obtain a four-year BSAS degree through the two-plus-two program.

This discipline covers both the technical and end-user aspects of computing, using PCs through mainframe computers with hands-on experience. Student skills are developed in computation that includes application programming, networking and telecommunications, database design, cyber security, and analysis of complex business and technical environments.

**Learning Outcomes**

Computer information systems students in the AAS and BSAS degree programs will:

- write computer programs in two or more programming languages.
- solve computer networking problems.
- communicate effectively with written reports.

CIS graduates of the AAS degree program will continue their studies towards a bachelor’s degree in a computer or information technology area or obtain employment as programmers, computer specialists, network administrators, systems analysts, computer specialists and in other closely related fields.

CIS graduates of the BSAS degree program will obtain full-time employment as programmers, network administrators, systems analysts, computer specialists and in other closely related fields.

**Associate Degree Program**

The computer information systems associate degree program emphasizes the use of computers to solve business or science problems. The graduate may be employed in positions involving direct use of microcomputers and mainframe computers for business or science administration and decision support applications. This degree may be earned in four semesters if students average 16 hours per semester.

Students wishing to receive the Associate in Applied Science in computer information systems must complete the following:

1. CSIS 1590, 2610, 3722, and 3723.
2. CIS 3741.
3. At least 9 additional semester hours of upper-division CIS elective courses.
4. ACCT 2602 and 2603.
5. ENGL 3743.
6. PHIL 2619.
7. MATH 1552.
8. University general education requirements in basic skills and one general education course in each of the areas of artistic and literary perspectives, societies and institutions, and speech.

**Bachelor’s Degree Program**

The computer information systems professional will develop his or her ability to conceptualize, design, and implement high quality information systems based upon computer systems ranging from a single-user system to complex, interactive, and multi-user distributed systems. This degree may be earned in eight semesters if students average 16 hours per semester.
Students wishing to receive the Bachelor of Applied Science in computer information systems must complete the following:

1. CSIS 1590, 2610, 3722, and 3723.
2. CIS 3741 and CIS 4840.
3. At least 21 additional semester hours of upper-division CIS or CSIS courses. CSCI or IT courses numbered 4800 and above may also be used as electives with advisor approval.
4. A minor of at least 18 semester hours.
5. ACCT 2602 and 2603.
6. MATH 1552.
7. ENGL 3743, PHIL 2619, and PHIL 2625.
8. University general education requirements in basic skills, knowledge domains, and skill intensive courses.

INFORMATION TECHNOLOGY

Information Technology provides systematic foundations that include methodologies and models for conceptualizing the complex dynamics of the Information Technology environment as it applies to information systems design and implementation.

The program supports work processes and employee performance enhancements; is designed to improve overall workgroup and individual productivity; and addresses the creation, distribution, storage, and use of information in all its states. Business process are incorporated as an integral part of all course content. Information Technology encompasses end-user computing, information centers, computer-supported work, performance support, project management, multimedia, networks, database systems, system analysis, and information security.

Learning Outcomes

Information technology students in the AAS and BSAS degree programs will:

- write and produce interactive programs.
- be able to design a 3NF database and extract information using QBE and SQL.
- communicate effectively with written reports.

IT graduates of the AAS degree program will continue their studies towards a bachelor's degree in a computer or information technology area or will obtain full-time employment as web technicians, help desk support, network technicians and in other closely related fields.

IT graduates of the BSAS degree program will obtain full-time employment as web designers, network administrators, multimedia specialists and in other closely related fields.

Associate Degree Program

Graduates of the associate degree program can pursue careers in service and support of information systems, as well as continuing on to a bachelor's degree in information technology. This degree may be earned in four semesters if students average 16 hours per semester.

Students wishing to receive the Associate in Applied Science in information technology must complete the following:

1. CSIS 1525, 1590, and either 1560 or 2610.
2. INFO 1575, 2663, 3774, 3704, 3714 and 3775.
3. CSIS 2699 or 4893, 3720 or 3782, 3722, and 3723 or 3783.
4. MATH 2623, 1552 or 1571.
5. An advisor-approved specialization area of at least 8 or 9 semester hours.
6. University general education requirements in basic skills and one general education course in each of the areas of artistic and literary perspectives, societies and institutions, and speech.

Bachelor's Degree Program

The information technology professional will develop his or her ability to conceptualize, design, and implement high-quality information systems based upon computer systems ranging from single-user systems to complex, interactive, and multi-user distributed systems. (Students who wish to teach in public schools follow the content and add the professional education coursework to earn a teaching license.) This degree may be earned in eight semesters if students average 16 hours per semester.

IT majors may follow the generic curriculum or may choose to follow one of several options: database, e-commerce programming, multimedia/web design, networking, security, or technical support. See the CSIS department secretary for curriculum sheets for the options.

Students wishing to receive the Bachelor of Applied Science in information technology must complete the following:

1. CSIS 1525, 1590 and either 1560 or 2610, and either 2699 or 4893.
2. INFO 1575, 2663, 3704, 3774, 3714 and 3775.
3. CSIS 3720 or 3782, 3722, 3723 or 3783, and 3726.
4. At least 15 additional semester hours of upper-division Information Technology or CSIS courses. CSCI or CIS courses numbered 3000 and above may also be used as electives with advisor approval.
5. An unspecified minor of 18 or more semester hours.
6. University general education requirements in essential skills, knowledge domains, and skill-intensive courses.
DEPARTMENT OF GEOLOGICAL AND ENVIRONMENTAL SCIENCES
330-941-3612

Professors Beiersdorfer, Jacobs; Associate Professors Amin, Dick (Chair); Assistant Professors Armstrong, Smith.

GEOLOGY PROGRAMS

Geology may be the major for the degree of Bachelor of Science or Bachelor of Arts.

The major in geology provides the student with a background for professional work, teaching, and graduate study in geology, environmental science, and related fields. This degree may be earned in eight semesters if students average 16 hours per semester.

Learning Outcomes

The student learning outcomes for the B.S. in geology are as follows:

- Communicate effectively using the language, concepts, and models of geology in written, visual, and numerical formats.
- Properly apply the scientific method to research a geologic problem and formulate conclusions.
- Demonstrate ability to apply appropriate field- and laboratory-based methods (of acquiring, quantitatively and qualitatively analyzing and interpreting geologic data and information).
- Demonstrate understanding of plate tectonics regarding the petrologic, stratigraphic, and structural evolution of continents and oceans.

Curriculum for the Bachelor of Science—Geology

For the Bachelor of Science degree, the student majoring in Geology must complete a minimum of 37 s.h. in Geology (28 Specified, 9 Elective), including a course in Field Geology, an additional 24-26 s.h. in science support courses.

I. Required Courses (28 s.h.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1505/1505L</td>
<td>Physical Geology/Physical Geology Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 2605</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3700</td>
<td>Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3701</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3704</td>
<td>Structural Geology</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 3704L</td>
<td>Structural Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 3718</td>
<td>Igneous &amp; Metamorphic Petrology</td>
<td></td>
</tr>
<tr>
<td>GEOL 5802</td>
<td>Sedimentology &amp; Stratigraphy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 48XX</td>
<td>Field Camp (Minimum)</td>
<td></td>
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<td>Total</td>
<td></td>
<td>28</td>
</tr>
</tbody>
</table>

II. Geology Electives (Minimum 9 s.h.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>s.h.</th>
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</thead>
<tbody>
<tr>
<td>GEOL 2602</td>
<td>Introduction to Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 2615</td>
<td>Geology &amp; the Environment I</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3702</td>
<td>Glacial Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3706</td>
<td>Geology of Economic Mineral Deposits</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3709</td>
<td>Subsurface Investigations</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3714</td>
<td>Principles of Paleontology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3716</td>
<td>Environmental Impact of Abandoned Mines</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3720</td>
<td>Field Investigations in Geology</td>
<td>1-4</td>
</tr>
<tr>
<td>GEOL 4804</td>
<td>Ground Water</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5805</td>
<td>Special Problems in Geology</td>
<td>1-2</td>
</tr>
<tr>
<td>GEOL 5815</td>
<td>Geology &amp; the Environment 2</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 5817</td>
<td>Environmental Geochemistry</td>
<td>3</td>
</tr>
<tr>
<td>ENST 5810</td>
<td>Environmental Safety</td>
<td>1</td>
</tr>
</tbody>
</table>

III. Required Science Courses (24-26 s.h.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1515</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1516</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1571</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>(and)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1572</td>
<td>Calculus II</td>
<td>4</td>
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<tr>
<td>(or)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 3717</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 1501L</td>
<td>Physics I + Lab</td>
<td>4+1</td>
</tr>
<tr>
<td>PHYS 1502L</td>
<td>Physics II + Lab</td>
<td>3+1</td>
</tr>
<tr>
<td>(or)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 2610L</td>
<td>General Physics I + Lab</td>
<td>4+1</td>
</tr>
<tr>
<td>PHYS 2611L</td>
<td>General Physics II + Lab</td>
<td>1+1</td>
</tr>
</tbody>
</table>

Curriculum for the Bachelor of Arts—Geology

GEOSCIENCE OPTION

Learning Outcomes

The student learning outcomes for the B.A. in geology are as follows:

- Communicate effectively using the language, concepts, and models of geology in written, visual, and numerical formats.
- Properly apply the scientific method to research a geologic problem and formulate conclusions.
- Demonstrate ability to apply appropriate field- and laboratory-based methods (of acquiring, quantitatively and qualitatively analyzing and interpreting geologic data and information).
• Demonstrate understanding of human impacts from geologic hazards (e.g., earthquakes, geologic global warming, landslides, and subsidence) and human impact on the environment (e.g., global warming from industry emissions, mining, and water and air pollution).

For the Bachelor of Arts degree, the student majoring in geology must complete a minimum 40 s.h. of required courses and a minimum of 8 s.h. in geoscience electives for a total of 48 s.h. A minor is not required.

I. Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 1505/</td>
<td>Physical Geology/</td>
<td></td>
</tr>
<tr>
<td>GEOL 1505L</td>
<td>Physical Geology Lab</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 2605</td>
<td>Historical Geology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3700</td>
<td>Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 3701</td>
<td>Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3704</td>
<td>Structural Geology</td>
<td>2</td>
</tr>
<tr>
<td>GEOL 3704L</td>
<td>Structural Geology Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 3718</td>
<td>Igneous &amp; Metamorphic Petrology</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 5802</td>
<td>Sedimentology &amp; Stratigraphy</td>
<td>3</td>
</tr>
</tbody>
</table>

*Science Electives II (See list below) ................. 12

One of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1570</td>
<td>Applied Calculus</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1571</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>STAT 3717</td>
<td>Statistical Methods</td>
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</table>

II. *12 s.h. from the following science electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>GEOL 2602</td>
<td>Introduction to Oceanography</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 2615</td>
<td>Geology &amp; the Environment I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1515</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1516</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1501</td>
<td>Fundamentals of Physics I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1502</td>
<td>Fundamentals of Physics II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2601</td>
<td>Principles of Biology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 2602</td>
<td>Principles of Biology II</td>
<td>4</td>
</tr>
<tr>
<td>ASTRO 2609</td>
<td>Moon &amp; Planets</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 2630</td>
<td>Weather</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 3737</td>
<td>Soils and Land Use</td>
<td>3</td>
</tr>
<tr>
<td>ENST 2600</td>
<td>Foundations of Environmental Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENST 5810</td>
<td>Environmental Safety</td>
<td>1</td>
</tr>
</tbody>
</table>

III. Geoscience Electives

**Upper-division Geology Courses ....................... 8

**GEOL 48XX Field Camp may count up to 3 s.h.
(The field camp is chosen in consultation with the advisor and the department's Curriculum Committee.)

Curriculum for the Bachelor of Arts – Geology

ENVIRONMENTAL OPTION

For the Bachelor of Arts degree, the student majoring in geology must complete a minimum 42 s.h. of required courses and a minimum of 6 s.h. in environmental electives for a total of 48 s.h. A minor is not required.

EARTH SCIENCE

Earth science may be the major for the Bachelor of Arts degree or the Bachelor of Science in Education degree.

The earth science major is designed to meet the needs of students desiring a broad background in the field. The major also provides the necessary background for graduate students and for a teaching field in earth science. Interested students should consult the chair of the Department of Geological and Environmental Sciences.
Learning Outcomes
The student learning outcomes for the B.A. in earth science are as follows:

- Communicate effectively using the language, concepts, and models of geology in written, visual, and numerical formats.
- Properly apply the scientific method to research a geologic problem and formulate conclusions.
- Demonstrate ability to apply appropriate field- and laboratory-based methods (of acquiring, quantitatively and qualitatively analyzing and interpreting geologic data and information).
- Demonstrate understanding of the interrelationships between geology and astronomy, oceanography, meteorology, and environmental science.

Curriculum for the Bachelor of Arts—Earth Science
An Earth Science major consists of 47 semester hours of science courses distributed as follows: 26 hours of specified courses, and 21 hours of elective courses. Elective courses must be taken from at least three (3) disciplines. A minor is not required

I. Specified: (26)

<table>
<thead>
<tr>
<th>Courses</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRO 1504</td>
<td>Descriptive Astronomy</td>
</tr>
<tr>
<td>ASTRO 2609</td>
<td>Moon &amp; Planets</td>
</tr>
<tr>
<td>GEOG 2630</td>
<td>Weather</td>
</tr>
<tr>
<td>GEOL 1505/1505L</td>
<td>Physical Geology/Physical Geology Lab</td>
</tr>
<tr>
<td>GEOL 2602</td>
<td>Introduction to Oceanography</td>
</tr>
<tr>
<td>GEOL 2605</td>
<td>Historical Geology</td>
</tr>
<tr>
<td>GEOL 2615</td>
<td>Geology &amp; Environment</td>
</tr>
<tr>
<td>GEOL 5815</td>
<td>Geology &amp; Environment</td>
</tr>
</tbody>
</table>

II. Electives: (21)

<table>
<thead>
<tr>
<th>Courses</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 2601</td>
<td>Principles of Biology I</td>
</tr>
<tr>
<td>CHEM 1515</td>
<td>General Chemistry I</td>
</tr>
<tr>
<td>ENST 2600</td>
<td>Foundations of Environmental Studies</td>
</tr>
<tr>
<td>GEOG 3730</td>
<td>Global Climates</td>
</tr>
<tr>
<td>GEOG 3737</td>
<td>Soils &amp; Land Use</td>
</tr>
<tr>
<td>GEOL 3700</td>
<td>Mineralogy</td>
</tr>
<tr>
<td>GEOL 3701</td>
<td>Geomorphology</td>
</tr>
<tr>
<td>GEOL 3702</td>
<td>Glacial Geology</td>
</tr>
<tr>
<td>GEOL 3704</td>
<td>Structural Geology</td>
</tr>
<tr>
<td>GEOL 3704L</td>
<td>Structural Geology Lab</td>
</tr>
<tr>
<td>GEOL 3706</td>
<td>Geology of Economic Min. Deposits</td>
</tr>
<tr>
<td>GEOL 3709</td>
<td>Subsurface Investigations</td>
</tr>
<tr>
<td>GEOL 3714</td>
<td>Principles of Paleontology</td>
</tr>
<tr>
<td>GEOL 3718</td>
<td>Igneous &amp; Metamorphic Petrology</td>
</tr>
<tr>
<td>GEOL 4804</td>
<td>Ground Water</td>
</tr>
<tr>
<td>GEOL 5802</td>
<td>Sedimentology &amp; Stratigraphy</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL STUDIES PROGRAM

Professor Jacobs, Associate Professor Amin, Assistant Professor Armstrong.

The environmental studies program leading to a Bachelor of Science (B.S.) degree will prepare students to enter the job market as environmental specialists or to continue in their education in a graduate program. Students in environmental studies will complete 34 s.h. of environmental studies courses, 26-27 s.h. of support courses in science and mathematics, and a prescribed minor of 18 s.h.

The minor may be in chemistry, biological sciences, environmental geology, environmental geography, economics, or political science, and must include 9 s.h. of upper division courses (3000 level and above). Credits may include those required for support science and mathematics, as applicable. The courses for the minor must be offered in one department. The student is welcome to take additional courses in other departments as electives. Students are encouraged to develop teamwork, communication, computer and problem-solving skills. This degree may be earned in eight semesters if students average 15.5 hours per semester.

Learning Outcomes
The student learning outcomes for the B.S. in environmental studies are as follows:

- Communicate effectively using the language, concepts, and models of environmental science in written, visual, and numerical formats.
- Properly apply the scientific method to research an environmental problem and formulate conclusions.
- Demonstrate ability to apply appropriate field- and laboratory-based methods (of acquiring, quantitatively and qualitatively analyzing and interpreting environmental data and information).
- Demonstrate understanding of pollution sources, pollution prevention strategies, and waste management.

REQUIRED ENVIRONMENTAL STUDIES COURSES

<table>
<thead>
<tr>
<th>ENST Courses (all, 34 s.h.)</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENST 2600</td>
<td>Foundations of ENST</td>
</tr>
<tr>
<td>ENST 2600L</td>
<td>Foundations Lab</td>
</tr>
<tr>
<td>ENST 3700</td>
<td>Environmental Chem.</td>
</tr>
<tr>
<td>ENST 3730</td>
<td>Air Quality</td>
</tr>
<tr>
<td>ENST 3750</td>
<td>Seminar</td>
</tr>
<tr>
<td>ENST 3751</td>
<td>Water Quality</td>
</tr>
<tr>
<td>ENST 3780</td>
<td>Research</td>
</tr>
<tr>
<td>ENST 3781</td>
<td>Environmental Sampling</td>
</tr>
</tbody>
</table>
**Support Courses in Science and Mathematics**

(all, 21 s.h. +2 s.h. optional)

**Courses** s.h.

- **Biol 2601/L. Principles 1** 4
- **Chem 1515/L Principles 1** 4
- **Chem 1516/L Principles 2** 4
- **Chem 1515r/1516r Recitation (optional)** 1+1
- **Geol 1505/L. Physical 1** 4
- **Math 1570. Applied Calculus 2**
  or **Math 1571 Calculus** (Recommended for Technology minors) 4

**Plus two of the following support courses (6-7 s.h.)**

- **Phys 1501 Principles 1** (Recommended for Technology minors) 4
- **Geog 2630. Weather** (Recommended for Geography minors) 4
- **Stat 2601 Statistics**
  or **Stat 3717 Statistics** (Recommended for upper-division credit) 3 or 4

1 Satisfies General Education Science or Science Lab Domain
2 Satisfies General Education Mathematics Domain
3 Satisfies General Education Science Domain

**Recommended Curriculum Leading to a B.S. Degree with a Major in Environmental Studies**

**FIRST YEAR**

**Courses** s.h.

- **Chem 1515/L, 1516/L** 8
- **Writing I, II** 6
- **Math 1570 or 1571** 4
- **Enst 2600/L** 4
- **Gen. Ed.** 12

**SECOND YEAR**

**Courses** s.h.

- **Biol 2601/L** 5
- **Geol 1505/L** 4
- **Enst 3700, 3781, 3751/L, 5800** 13
- **Phys 1501 or Stat 2601/3717**
  or **Geog 2630** 3-4
- **Gen. Ed.** 9

**THIRD YEAR**

**Courses** s.h.

- **Enst 3730, 5810, 5830** 9
- **Phys 1501 or Stat 2601/3717**
- **or Geog 2630** 3-4
- **Gen. Ed.** 9
- **Minor** 9-12

**FOURTH YEAR**

**Courses** s.h.

- **Enst 5860, 3750, 3780, 3790** 10
- **Gen. Ed./electives** 3-9
- **Electives** 5-12
- **Minor** 0-9

* Majors transferring in from other programs at YSU or from other universities may use up free electives and/or require additional semesters or summers of study. College and University requirements apply (total hours, upper division hours, general education goals, etc.). One writing intensive, oral intensive, critical thinking intensive, and capstone course can be satisfied within this program.

**DEPARTMENT OF MATHEMATICS AND STATISTICS**

**330-941-3302**

Professors Chang, Fabrykowski, Kent, O’Mellan, Piotrowski, Ritchey (Chair), Rodabaugh, Smotzer, Stanek, Wingler; Associate Professors Burden, Kerns, Pollack, Spalsbury, Tartir, Yates; Assistant Professors Flowers, Goldthwait, Jalics, Taylor, Wakefield; Instructor Carlson.

Mathematics may be the major subject for the following degree programs: Bachelor of Science (B.S.), Bachelor of Arts (B.A.), and Bachelor of Science in Education (B.S. in Ed.). The B.A. and B.S. degrees may be earned in eight semesters if students average 16 hours per semester.

In addition to satisfying general University requirements, all students majoring in mathematics must complete the following core courses: Math 1571, 1572, 2673, 3715, 3720, 3721, 3751, and 4896 or 4897H or 4893; also Stat 3743 and CSIS 2610.

**B.S. DEGREE**

**Learning Outcomes**

The student learning outcomes for a B.S. in mathematics are as follows:

- Students will develop and demonstrate the ability to reason mathematically by constructing mathematical proofs and recognizing and analyzing accurate numerical...
data in all core courses. Students will learn that truth in mathematics is verified by careful argument, and will demonstrate the ability to make conjectures and form hypotheses, test the accuracy of their work, and effectively solve problems.

- Students will learn to identify fundamental concepts of mathematics as applied to science and other areas of mathematics, and to interconnect the roles of pure and applied mathematics.

- Students will demonstrate that they can communicate mathematical ideas effectively by completing a senior capstone project involving an investigative mathematical project and presenting their findings and results in both a written format and as an oral presentation to faculty and other students.

Tracks

Students may select one of the following four tracks:

Traditional Mathematics Track. In addition to the core, MATH 5852, 5822, and 5880, together with at least one of 3760, 3705, or 5845 and one additional 5800-level course in mathematics. The minor course of study may be any discipline. Suggested minors include biology, chemistry, computer science, economics, geology, physics, psychology, one engineering specialty (from chemical, civil, electrical, industrial, mechanical), or statistics. The total number of required semester hours of credit in mathematics (excluding statistics courses) for this track is 41.

Statistics Track. In addition to the core, MATH 3760, 5845, and a minor in statistics that would consist of STAT courses 3743, 5817, 5843, 5844, and two elective courses which can be chosen from the STAT courses 5840, 5846, 5847, 5849 and 5895. One of the elective courses may be chosen from outside the Department of Mathematics and Statistics with the permission of the chairperson. Such a course can be ECON 5824 or ISEN 3720 or another statistics-related course. The total number of required semester hours of credit in mathematics for this track is 32.

Applied Mathematics Track. In addition to the core, MATH 3705, 3760, and two electives from 5825, 5835, 5845, 5855, 5861, and 6942, and a recognized minor in any discipline. Suggested minors include statistics, computer science, engineering, physics, geology, chemistry, biology, logistics, economics, or geoscience. The total number of required semester hours of credit in mathematics for this track is 38.

Quantitative Business Track. In addition to the core, MATH 5845, STAT 5817 and at least one of STAT 4888, STAT 5802, or MATH 3760 as well as a minor course of study in business or finance. The total number of required semester hours of credit in mathematics for this track is 38.

Actuarial Mathematics Track. In addition to the core, students choose at least two courses among MATH 3760, STAT 4800, 4888, 5802, and 5844 and complete a minor in actuarial science that would consist of STAT courses 5843 and 5817, ECON courses 2610 and 2630, FIN 3720, and either STAT 5848 or ECON 5824. The total number of required semester hours of credit in mathematics for this track is 32.

B.A. DEGREE

Learning Outcomes

The student learning outcomes for a B.A. in mathematics are as follows:

- Students will develop and demonstrate the ability to reason mathematically by constructing mathematical proofs and recognizing and analyzing accurate numerical data in all core courses. Students will learn that truth in mathematics is verified by careful argument, and will demonstrate the ability to make conjectures and form hypotheses, test the accuracy of their work, and effectively solve problems.

- Students will learn to identify fundamental concepts of mathematics as applied to science and other areas of mathematics, and to interconnect the roles of pure and applied mathematics.

- Students will demonstrate that they can communicate mathematical ideas effectively by completing a senior capstone project involving an investigative mathematical project and presenting their findings and results in both a written format and as an oral presentation to faculty and other students.

Requirements

In addition to the core, B.A. candidates must take 12 additional semester hours of mathematics at the upper-division level, with at least two at the 4800 level. The minor field of study may be any discipline. The total number of required semester hours of credit in mathematics for this program is 38.

Tracks

In selecting the appropriate track, the student should consult a department advisor, since certain tracks are to be preferred according to whether the student contemplates graduate study in mathematics or statistics, secondary school teaching, or a career in business, industry or government.

The Traditional Mathematics Track enrolls students seeking classical training in mathematics. Students will study the nature of mathematics in fields such as algebra, real analysis, complex analysis, and topology. Connections to, and generalizations of, earlier formulations of mathematical concepts will frequently be made. Generally, new results in mathematics are developed and
The Applied Mathematics Track emphasizes areas of mathematics used in government and industry. Students learn mathematical models for the study of physical and computational processes. Mathematical techniques are also used to study uncertainty, scheduling, and decision theory. Many graduates find employment in consulting firms and large corporations where computing and mathematical problem solving skills are valued. Students are also prepared to pursue a master's degree in applied mathematics.

The Statistics Track is for students interested in the analysis of data. Statistical techniques are utilized in many fields of research such as medicine, biology, business, and sociology. Statisticians learn proper methodology for collecting, summarizing, and interpreting data subject to sampling variability. The increase in affordable computing and the use of statistical software have placed statistical expertise in demand. Generally, students interested in statistics pursue further study at the graduate level, but positions are available for students upon completion of a bachelors degree.

Students enrolled in the Quantitative Business Track will be well prepared to bring quantitative problem solving skills to various fields of business. Students interested in using mathematics to study logistics or financial and business situations should enroll in this track. By enrolling in this track and carefully planning electives, students will be well prepared to pursue an MBA degree from many programs across the country. Students interested in pursuing graduate study in financial mathematics or financial engineering should also consider this track. Students from this program can find employment in banks, insurance firms, public accounting firms, investment firms, labor unions, government, and large corporations.

The Actuarial Mathematics Track is designed for students interested in pursuing employment as an actuary or further study in actuarial science upon graduation. Students interested in using mathematics and statistics to quantify risk and develop models to better predict and study risk should enroll in this track. Actuaries work for insurance companies, investment and consulting firms, as well as the government and seek to find ways to manage risk and avoid potential exposure to excessive risk. Actuaries assess pension plans, mortality rates, and accident rates. Students in this track will study the mathematical and statistical foundations of actuarial models as they prepare for the examination sequence to become a licensed actuary.

The Bachelor of Arts Track is available for students interested in a liberal arts education. This degree is also recommended for students who wish to pursue another discipline, possibly a double major.

Transfer Credit

Students receiving transfer credit from another institution for courses in mathematics should consult the department chair to determine how this credit will apply toward the major requirements.

Mathematics Minors

Interested students should consult the Department of Mathematics and Statistics for more information.

DEPARTMENT OF PHYSICS AND ASTRONOMY
330-941-3616

Professors Andrews, Carroll, Crescimanno, Sturrus (Chair), Tabak; Associate Professors Durrell, Oder; Assistant Professor Feldmeier.

Courses are organized with the following aims: (1) To provide well-rounded training in physics and astronomy for those needing it for graduate study, industry, or for secondary school teaching; (2) To provide basic training for engineering and pre-professional students; (3) To acquaint the non-specializing student with scientific methods and with the place of physics and astronomy in the modern world.

Following the course descriptions below are the curricula and minimum requirements for the degrees of Bachelor of Arts and Bachelor of Science with a major in physics and a Bachelor of Science degree with a combined major in physics and astronomy. These degrees may be earned in eight semesters if students average 15.5 hours per semester.

Learning Outcomes

The Department of Physics & Astronomy has established the following learning outcomes for the B.S. and B.A. programs:

- Students will learn to reason critically about physical systems as individuals and in groups.
- Students will learn to apply the concepts of physical laws to solve numeric problems in physical systems.
- Students will learn to measure the properties of physical systems using modern test equipment and report the results of the measurements with their associated accuracy and precision.
- Students of the B.S. program in physics will be prepared for entry into physics graduate programs or scientific and technical positions in industry and government.
- Students of the B.S. program in physics/astronomy will be prepared for entry into astronomy graduate programs or scientific and technical positions in industry and government.
Degree Options

The B.A. degree program in physics is designed for students who are interested in fields that benefit from a strong background in physics or for students planning to terminate their education at the bachelor's degree level. The B.S. degree program in physics is designed for students who plan to pursue graduate studies in physics. The B.S. degree program with a combined physics-astronomy major is designed for students who plan to pursue graduate studies in astronomy or space science.

A student desiring to teach physics or astronomy in secondary schools should consult the dean of the College of Education.

Shown below are suggested curricula for complete four-year programs. Students are urged to come to the department office early in their first year to select, and consult with, an advisor from the teaching staff.

Suggested Curriculum for a B.S. in Physics with a Minor in Mathematics

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS- 2610, 2610L, 2611, 2611L</td>
<td>10</td>
</tr>
<tr>
<td>MATH- 1571, 1572</td>
<td>8</td>
</tr>
<tr>
<td>CHEM- 1515, 1516</td>
<td>8</td>
</tr>
<tr>
<td>ENGL- 1550, 1551</td>
<td>6</td>
</tr>
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<td></td>
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<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS- 3704, 3704L, 3705, 3705L</td>
<td>8</td>
</tr>
<tr>
<td>MATH- 2673, 3705</td>
<td>7</td>
</tr>
<tr>
<td>Electives (See note)</td>
<td>15</td>
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<td>30</td>
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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>PHYS- 3701, 3702</td>
<td>6</td>
</tr>
<tr>
<td>PHYS- 3741, 3742</td>
<td>6</td>
</tr>
<tr>
<td>PHYS- 3750</td>
<td>3</td>
</tr>
<tr>
<td>Electives (See note)</td>
<td>16</td>
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<td></td>
<td>31</td>
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</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS- 5810, 5811</td>
<td>6</td>
</tr>
<tr>
<td>PHYS- 4805</td>
<td>3</td>
</tr>
<tr>
<td>Electives (See Note)</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

Note: The electives must satisfy the general University and/or STEM College requirements.

Minimum requirements for the B.S. degree in physics with a minor in mathematics—physics courses, 42 s.h.: same as the B.A. above plus 3742, 3750, 5810, 5811; mathematics courses, 18 s.h.: same as B.A. degree.

Minimum requirements for the B.S. with a combined major in physics and astronomy and a minor in mathematics—physics courses, 37 s.h.: 2610, 2610L, 2611, 2611L, 3701, 3702, 3704, 3704L, 3705, 3705L, 3741; 10 s.h. of upper-division physics courses and 21 s.h. of astronomy courses: 1504, 2609, 3711, 4805, 4811, 4812; mathematics courses, 18 s.h., same as for B.A. degree above.

RAYEN SCHOOL OF ENGINEERING AND ENGINEERING TECHNOLOGY

Accreditation

The baccalaureate degree programs in the Rayen School of Engineering and Engineering Technology accredited by the Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET) are chemical engineering (jointly accredited by the American Institute of Chemical Engineers), civil engineering, electrical engineering, industrial and systems engineering, and mechanical engineering; those accredited by the Technology Accreditation Commission of ABET are civil and construction engineering technology, electrical engineering technology, and mechanical engineering technology.

Admission

For those seeking a Bachelor of Engineering (B.E.) degree, first-time-college students from high school are admitted to one of the following entry-level majors based on academic preparation.

First-Year Engineering

Minimum ACT Math score of 23
OR Minimum SAT Math score of 530
OR YSU Math Placement of MATH 1571 (Calculus I)

Note: Students deficient in high school trigonometry are required to enroll in MATH 1513 prior to MATH 1571.

International students must also present a minimum TOEFL score of 525.

Pre-Engineering & Technology

For those who do not meet the above criteria

To transfer into the first-year engineering major from another college major, a student must:
• Be qualified to enroll in MATH 1571 and ENGL 1550
• Have a GPA of at least 2.30
• Not be disqualified (See Disqualification Policy below)

To transfer into a degree-granting engineering major, a student must:
• Have earned a minimum 12 semester hours or equivalent
• Have earned “C” or better grades in MATH 1571, CHEM 1515/1515L and ENGL 1550
• Have a GPA of at least 2.30
• Not be disqualified (See Disqualification Policy below)

Associate in Applied Science Degree

Associate in Applied Science majors include: civil and construction engineering technology, computer information systems and information technology, electrical engineering technology, and mechanical engineering technology. These majors offer a 2+2 degree program design leading to the Bachelor of Science in Applied Science degree. Consult the department sections of the bulletin for specific course information.

School of Engineering Disqualification

A student who earns two grades of D, F, or NC in the same course(s) listed below will be disqualified from transferring into a degree-granting engineering major. These courses are: MATH 1513, MATH 1571, ENGL 1540, ENGL 1550, CHEM 1515/1515L, and PHYS 2610.

Enrollment in Restricted Engineering Courses

Enrollment in most engineering and engineering technology courses is restricted to those admitted to a degree-granting engineering major. A few engineering courses are not restricted. They are: ENGR 1550, 1555, 1560; CEEN 2610 and 2610L; ECEN 1521, 1521L and 1555. All others require admission to a professional engineering major unless approved by the chair of the engineering department and coordinator of the engineering program offering the course and by the STEM College dean. Students will be administratively withdrawn from restricted courses in which they are improperly enrolled.

Bachelor of Engineering degree (B.E.) Graduation Policies

All engineering programs have pre-college course requirements listed in the chart at the end of this section that should be completed in high school or in equivalent course work at the college level. YSU offers the equivalent high school courses for those not meeting these pre-college requirements. These high school deficiencies do not count toward graduation requirements and should be completed during the first two years of enrollment.

Each engineering program has minimum graduation requirements. These requirements can affect a student’s enrollment in senior-level classes. If a senior-level student reaches a point where it is not possible to achieve graduation requirements, further enrollment in engineering classes will be denied. In addition to the overall recalculated C average required by the University, an unrecalculated C average in the major is required. Also, an unrecalculated C average in all engineering courses is required in all majors. These minimum graduation requirements are referred to as a triple C requirement.

Chemical Engineering

A student who is failing to meet the triple C requirement prior to the senior year will be denied enrollment in CHEN 4887.

Civil and Environmental Engineering

A student who is failing to meet the triple C requirement prior to the senior year will be denied enrollment in CEEN 4863, 5837, 5855, & 4881.

Electrical and Computer Engineering

Students who have not earned a C or better grade in ECEN 3741 and 3742 and students who are failing to meet the triple C requirement will be denied enrollment in senior level courses.

Industrial and Systems Engineering

A student who is failing to meet the triple C requirement will be denied enrollment in 4000- and 5000-level ISEN courses.

Mechanical Engineering

A student who is failing to meet the triple C requirement will be denied permission to register in any junior level mechanical engineering course until remedial measures, as required by the department chair, are agreed to by the student. Also, at the end of the junior year, the student will be denied permission to register in MECH 4808, MECH 4808L, and MECH 4809, until the triple C requirement is met.

Cooperative Education/Professional Practice

Several programs leading to a baccalaureate degree offer students an optional cooperative education program. Co-op students are required to complete the same academic program for graduation as those not participating in the cooperative education experience. Credit hours awarded for the cooperative education experience are considered “add-on” hours to the degree. Professional practice opportunities
include working with faculty on grants and research projects as well as internship opportunities with local industry. A professional practice coordinator is available to assist in student placement.

The table below shows the minimum pre-college requirements:

## PRE-COLLEGE Subject High School Units

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td>3</td>
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<tr>
<td>Algebra 1 and 2</td>
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<tr>
<td>Geometry</td>
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<tr>
<td>Trigonometry</td>
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<tr>
<td>Chemistry</td>
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<tr>
<td>Mechanical Drawing</td>
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<td>Physics</td>
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</tr>
<tr>
<td>Other</td>
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</table>

### DEPARTMENT OF CIVIL/ENVIRONMENTAL AND CHEMICAL ENGINEERING

330-941-3027

Professors Alam, Garr, Husain, Lin, Martin (Chair); Associate Professors Islam, Price; Assistant Professors Cortes, Tritico.

### CHEMICAL ENGINEERING PROGRAM

Associate Professor Douglas M. Price, Program Coordinator.

The chemical engineering program—supplemented with courses in chemistry, physics, mathematics, and general engineering—provides a broad preparation for design, operation, and management in the chemical, biomedical, biological, nuclear, pharmaceutical, and energy-conversion industries, as well as graduate study leading to research positions in industry and government and to academic careers.

### Educational Objectives

Graduates of the chemical engineering program at YSU

- Pursue careers as practicing chemical engineers in chemical and energy-related industries as well as in areas of materials, environmental, and biomedical engineering and biotechnology.
- Demonstrate strong, functional command of chemical engineering fundamentals and communication skills.
- Are aware of the scope of the chemical engineering profession and its global opportunities and requirements.
- Exhibit professional responsibility and a sensitivity to a broad range of societal concerns including ethical, environmental, political, regulatory, and global issues in making decisions.

### Learning Outcomes

The curriculum is structured to achieve the following outcomes as prescribed by ABET:

- Ability to apply mathematics, science and engineering principles
- Ability to design and conduct experiments, analyze and interpret data
- Ability to design a system, component, or process to meet desired needs
- Ability to function on multidisciplinary teams
- Ability to identify, formulate and solve engineering problems
- Understanding of professional and ethical responsibility
- Ability to communicate effectively
- The broad education necessary to understand the impact of engineering solutions in a global and societal context
- Recognition of the need for and an ability to engage in lifelong learning
- Knowledge of contemporary issues
- Ability to use the techniques, skills and modern engineering tools necessary for engineering practice

### Facilities

The chemical engineering laboratories are well equipped for undergraduate instruction and student and faculty research. The equipment includes fluid flow apparatus, concentric tube and plate and frame heat exchangers, thermal conductivity apparatus, boiling heat transfer apparatus, tray dryer, double effect evaporator, computer-controlled distillation tower, gas absorption and liquid-liquid extraction columns, chemical reactors, electrostatic particle separator, centrifuges, filter presses, and other miscellaneous equipment.

### Curriculum for the Bachelor of Engineering Degree with a Major in Chemical Engineering

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ENGR 1550</td>
<td>Engineering Concepts</td>
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</tr>
<tr>
<td>ENGR 1560</td>
<td>Engineering Computing</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1515</td>
<td>General Chemistry 1</td>
<td>4</td>
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<tr>
<td>CHEM 1515L</td>
<td>Chemistry Lab 1</td>
<td>0</td>
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<tr>
<td>CHEM 1516</td>
<td>General Chemistry 2</td>
<td>4</td>
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<tr>
<td>CHEM 1516L</td>
<td>Chemistry Lab 2</td>
<td>0</td>
</tr>
<tr>
<td>MATH 1571</td>
<td>Calculus 1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1572</td>
<td>Calculus 2</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1550</td>
<td>Writing 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1551</td>
<td>Writing 2</td>
<td>3</td>
</tr>
<tr>
<td>CMST 1545</td>
<td>Communication Foundations</td>
<td>3</td>
</tr>
<tr>
<td>GER Elective</td>
<td></td>
<td>3</td>
</tr>
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34
### SECOND YEAR

<table>
<thead>
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<th>Courses</th>
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<tbody>
<tr>
<td>PHYS 2610 General Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2611 General Physics 2</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3719 Organic Chemistry 1</td>
<td>4</td>
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<tr>
<td>CHEM 3719L Organic Chemistry Lab 1</td>
<td>0</td>
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<tr>
<td>CHEM 3720 Organic Chemistry 2</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3720L Organic Chemistry Lab 2</td>
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<tr>
<td>CHEN 2650 Comp. Meth. in Chem. Eng.</td>
<td>2</td>
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<tr>
<td>CHEN 2683 Chemical Engr Principles 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 2684 Chemical Engr Principles 2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2673 Calculus 3</td>
<td>4</td>
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<tr>
<td>MATH 3705 Differential Equations</td>
<td>3</td>
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<tr>
<td>PHIL 2625 Ethics Elective See Note1</td>
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Total: 138

### THIRD YEAR

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>CHEN 3771 Chem Engr Thermo 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 3772 Chem Engr Thermo 2</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 3785L Transport Lab 1</td>
<td>1</td>
</tr>
<tr>
<td>CHEN 3786 Transport Phenomena</td>
<td>4</td>
</tr>
<tr>
<td>CHEN 3787 Trans 2/Unit Ops 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEN Chemical Engr Elective</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 3739 Physical Chemistry 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEN 3739L Physical Chemistry Lab 1</td>
<td>0</td>
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<tr>
<td>CHEM 3740 Advanced Chemistry Elective</td>
<td>3</td>
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<td>CHEM 3740L Physical Chemistry Lab 2</td>
<td>0</td>
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<td>F.E. Elective See Note1</td>
<td>3</td>
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<tr>
<td>GER Elective</td>
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<tr>
<td>GER Elective</td>
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Total: 34

### FOURTH YEAR

<table>
<thead>
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<th>Courses</th>
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<tbody>
<tr>
<td>CHEN 3787L Unit Ops Lab 1</td>
<td>1</td>
</tr>
<tr>
<td>CHEN 4815 Unit Operations 2</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 4815L Unit Ops Lab 2</td>
<td>1</td>
</tr>
<tr>
<td>CHEN 4880 Chem Reactor Design 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 4881 Chem Reactor Design 2</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 4882 Process Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 4882L Process Dynamics Lab</td>
<td>1</td>
</tr>
<tr>
<td>CHEN 4887 Process &amp; Plant Design 1</td>
<td>3</td>
</tr>
<tr>
<td>CHEN 4888 Process &amp; Plant Design 2</td>
<td>3</td>
</tr>
<tr>
<td>CHEN Chem Engr Elective</td>
<td>3</td>
</tr>
<tr>
<td>CHEN Chem Engr Elective</td>
<td>3</td>
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<tr>
<td>GER Elective</td>
<td>3</td>
</tr>
<tr>
<td>GER Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 36

**Note:** Transfer students from any two- or four-year academic program at other institutions or at this University who wish to pursue studies in chemical engineering should consult with the program coordinator for individual counseling to develop a program of study that fully uses their educational background and requires a minimum of time to satisfy the requirements for the degree of Bachelor of Engineering in Chemical Engineering.

### CIVIL ENGINEERING PROGRAM

**Professor Scott C. Martin (Program Coordinator).**

Civil engineers are responsible for planning, designing, and supervising construction of the nation's infrastructure, including buildings, bridges, highways, dams, drinking water and wastewater treatment facilities, airports, etc. The civil engineering program provides an academic environment rich in opportunities for students to develop the knowledge and skills necessary for productive and rewarding careers and lives. The educational objectives of the program are to prepare graduates to:

- excel in any sector(s) of civil engineering practice, including consulting, government, construction, and industry;
- complete graduate study in civil engineering or a related field;
- communicate effectively with a variety of audiences through writing and speaking;
- apply creativity and a strong understanding of math, science, computers, and engineering to develop innovative solutions to engineering problems;
- understand and effectively incorporate the role of social, ethical, political, economic, and environmental considerations in their professional careers;
- work effectively as a member of a team or organization, and excel in a leadership role where appropriate;
- serve their profession and society through involvement in professional and service organizations;
- achieve registration as a Professional Engineer; and
- continue their intellectual and professional growth through lifelong learning.
Learning Outcomes

The undergraduate curriculum is structured to achieve the following specific program outcomes:

- Students will obtain a broad education necessary to understand the impact of civil engineering solutions in a global, societal, and environmental context.
- Students will be able to solve civil engineering problems in practice by applying fundamental knowledge of mathematics, science, and engineering, and using modern engineering techniques, tools, equipment, and computer applications.
- Students will be able to design systems, components, or processes to meet specific needs within the following realistic constraints: economic; social; political; environmental; sustainability; ethical; health and safety; and constructability.
- Students will be able to design and conduct experiments, and to analyze and interpret data within the various civil engineering specialty disciplines.
- Students will understand the fundamentals of business, management, and leadership, including organization, planning, bidding, report preparation, construction, and functioning effectively as a member of a multidisciplinary team.
- Students will be able to communicate effectively, via speaking and writing, with both technical and non-technical audiences.
- Students will have a solid understanding of professional and ethical responsibility, the importance of professional licensure, and the need for continued professional development.

Program Description

In the first two years of the program, students take coursework in the fundamentals of engineering, mathematics, and basic science in order to strengthen their technical background and develop intellectual maturity. The student then continues in a broad-based civil engineering program that develops competence in a variety of areas within the discipline. Engineering topics include environmental, geotechnical, structural, transportation, and hydraulic engineering, as well as surveying. In the last two years, students choose elective courses in the various areas of civil engineering based on their academic and career interests.

Instruction on the design process is fully integrated throughout the curriculum to foster the depth of understanding and self-confidence that students will need to think creatively and become productive engineers. The curriculum is based on the belief that students can best develop their creative skills through a series of progressively more demanding design experiences leading up to a major, comprehensive senior-level project.

Students majoring in civil engineering earn the Bachelor of Engineering (B.E.) degree. Graduates are prepared for advanced study at the master's and doctoral level in engineering or for employment in the engineering profession.

The program offers the atmosphere of a small school in maintaining close contact between students and faculty. Senior professors serve as academic advisors and are used in all phases of instruction from freshman to graduate courses. All of the program's facilities are located within the modern Moser Hall. The program maintains laboratories for environmental engineering, fluid mechanics, soil mechanics, strength of materials, surveying, and concrete testing. A wide variety of equipment is available to support both teaching and research activities.

Curriculum for the Bachelor of Engineering Degree with a Major in Civil Engineering

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>ENGL 1550 Writing 1</td>
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<tr>
<td>ENGL 1551 Writing 2</td>
<td>3</td>
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<tr>
<td>CHEM 1515 General Chemistry 1</td>
<td>4</td>
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<td>CHEM 1515L General Chemistry 1 Lab</td>
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<tr>
<td>ENGR 1550 Engineering Concepts</td>
<td>3</td>
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<tr>
<td>ENGR 1560 Engineering Computing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1571 Calculus 1</td>
<td>4</td>
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<td>MATH 1572 Calculus 2</td>
<td>4</td>
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<tr>
<td>CMST 1545 Communication Fdns.</td>
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<tr>
<td>GER SI Elective</td>
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<td>GER AL Elective</td>
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<td><strong>Total</strong></td>
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<table>
<thead>
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<tbody>
<tr>
<td>MATH 2673 Calculus 3</td>
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</tr>
<tr>
<td>MATH 3705 Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 2601 Statics</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 2602 Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 2602L Strength of Materials Lab</td>
<td>1</td>
</tr>
<tr>
<td>CEEN 2610 Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 2610L Surveying Lab</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 2611 Geology for Engineers</td>
<td>3</td>
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<tr>
<td>PHYS 2610 General Physics 1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1516/1516L General Chemistry 2 or PHYS 2611 General Physics 2</td>
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<tr>
<td>GER PS Elective</td>
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<thead>
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<tr>
<td>CEEN 3716 Fluid Mechanics</td>
<td>3</td>
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<td>CEEN 3716L Fluid Mechanics Lab</td>
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<tr>
<td>CEEN 3717 Hydraulic Design</td>
<td>4</td>
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<tr>
<td>CEEN 3720 Transportation Engineering</td>
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<td><strong>Total</strong></td>
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Courses

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<tbody>
<tr>
<td>CEEN 3736</td>
<td>Fundamentals of Environmental Engineering</td>
<td>3</td>
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<tr>
<td>CEEN 3749</td>
<td>Structural Analysis 1</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 3749L</td>
<td>Str. Anal. Lab</td>
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<td>CEEN 4881</td>
<td>Geotechnical Engineering</td>
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<td>CEEN 4881L</td>
<td>Geotechnical Engineering Lab</td>
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<td>CEEN 4888</td>
<td>Design Elective</td>
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<td>ISEN 3724</td>
<td>Engineering Economy</td>
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<td>GER PS</td>
<td>FS Elective</td>
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<td>GER SI</td>
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**Total ..................................................132**

**FOURTH YEAR**

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<tr>
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<tbody>
<tr>
<td>CEEN 5855</td>
<td>Reinforced Concrete Design</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 5856</td>
<td>Steel Design</td>
<td>3</td>
</tr>
<tr>
<td>CEEN 4812</td>
<td>Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CEEN Elective</td>
<td></td>
<td>3</td>
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<tr>
<td>CEEN Elective</td>
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<td>3</td>
</tr>
<tr>
<td>CEEN 4863</td>
<td>Integrated Design Project</td>
<td>3</td>
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<tr>
<td>ISEN 3710</td>
<td>Engineering Statistics</td>
<td>3</td>
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<tr>
<td>MECH 2641</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>F.E. Elective</td>
<td>See Note Below1</td>
<td>3</td>
</tr>
<tr>
<td>GER AL Elective</td>
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<td>3</td>
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<tr>
<td>GER AL Elective or SI Elective</td>
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<td>3</td>
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**Total ..................................................33**

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1 – May substitute CHEM 1516/1516L or PHYS 2611
2 – May substitute out of Dept. course with approval of CE Program Coordinator
3 – Fundamentals of Engineering Elective – Choose One: MECH 2606 Engineering Materials; or MECH 2603 Thermodynamics 1; or CEEN 2632 Basic Circuit Theory 1

**SUMMARY**

<table>
<thead>
<tr>
<th>Courses</th>
<th>S.H.</th>
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<tbody>
<tr>
<td>Mathematics</td>
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<tr>
<td>Natural Science</td>
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<td>Writing and Speech</td>
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<tr>
<td>General Education Electives</td>
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<tr>
<td>Civil Engineering</td>
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<tr>
<td>Other Engineering</td>
<td>15</td>
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**Total ..................................................132**

**Cooperative Education Option in Civil Engineering**

Students who have successfully completed the sophomore year and meet the additional requirements of the program may select the cooperative education option. Students selecting this option must register for, and successfully complete at least two co-op work periods beginning after the end of the sophomore year. These work periods may be either concurrent or alternating with academic semesters. Selecting the co-op option typically adds one or two semesters to the degree program. Further information on the cooperative education option is available in the department office.

**DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING**

330-941-3287  
Professors Jalali (Chair), Munro, Pansino; Associate Professors Mossayebi, Li.

The department offers coursework leading to the Bachelor of Engineering with a major in electrical engineering. Traditional, computer/ digital, and biomedical options are available. The first courses in the department major are electrical and computer engineering (ECEN) 1521 and 1521L, and are available to all University students. Visit the department office or web site for details.

**Mission**

The Department of Electrical and Computer Engineering is committed to academic excellence, and it provides educational opportunities in electrical and computer engineering. We provide students at baccalaureate and master levels with diverse and comprehensive educational experiences to meet the highly demanding standards required by industry and for further education.

We utilize the resources of the university and interact with industry to evaluate, optimize, maintain, and upgrade our teaching, research, scholarship, service and facilities to continue maintaining a high-standard educational environment. We promote students’ intellectual growth to become fully developed, informed, and productive in order to serve themselves and their local and global communities effectively.

**Program Educational Objectives**

The Department of Electrical and Computer Engineering at Youngstown State is committed to offering its student a high standard of engineering education. In fulfillment of its mission, as well as the missions of the College of Science, Technology, Engineering, and Mathematics and the University, the following program educational objectives are established. Within a few years of graduation, our graduates should be able to:

- **Apply** the latest technology, using engineering hardware and software, and scientific and mathematical knowledge to solve technical problems individually or in teams.
- **Function** professionally, socially, and ethically in the practice of electrical engineering or in post-graduate education.
- **Understand** global issues and the impact of engineering and technology on society and the environment.
- **Engage** in life-long learning to broaden themselves and their profession.
- **Communicate** effectively both individually and in teams.
Student Outcomes

To achieve the program educational objectives after graduation, our students must attain the following student outcomes by the time of their graduation:

- an ability to apply knowledge of mathematics, science, and engineering;
- an ability to design and conduct experiments, as well as to analyze and interpret data;
- an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability;
- an ability to function on multi-disciplinary teams;
- an ability to identify, formulate, and solve engineering problems;
- an understanding of professional and ethical responsibility;
- an ability to communicate effectively;
- the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context;
- a recognition of the need for, and an ability to engage in life-long learning;
- a knowledge of contemporary issues; and
- an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Laboratory Facilities

The Department of Electrical and Computer Engineering maintains modern, well-equipped laboratory facilities for circuits, electronics, communications, electromagnetics, energy conversion, control systems, and digital systems. PC computing and wireless networking are available, as well as various licensed software packages.

Cooperative Education

The Electrical and Computer Engineering Department participates in the College's Cooperative Education Program. Students who have completed the sophomore year and meet requirements approved by the department may enroll in an optional co-op program. Co-op students are required to complete the same program requirements for graduation as non co-op students.

Students who enroll in two co-op courses and complete the co-op requirements may receive up to two semester credits as co-op credit to be applied toward ECEN elective courses. Students interested in receiving co-op credit must enroll in ENGR 3798 or 4898 and follow the policies written in the course syllabus.

The course requirements include the submission of a work report pertaining to their co-op experience as well as a presentation. The department faculty reviews the student report to ensure the student's co-op experience qualifies him or her for credit, and then a grade is assigned. Interested students may contact the department for details.

Options

Traditional, computer/digital, and biomedical options, the co-op program, design projects, computer simulation, and hands-on laboratory sessions are the pillars of the Bachelor of Engineering with a major in electrical engineering. These features provide students with the opportunity to prepare for a vast array of entry-level positions or advanced studies.

With faculty assistance, students tailor their programs to meet their educational objectives. This includes choices of options and elective courses, and participation in co-op, as well as semester-by-semester scheduling of courses.

The traditional option has 52 hours of electrical engineering, 15 hours of other engineering, 18 hours math, 16 hours science, 9 hours of writing and speech, and 21 hours general education courses for a total of 131 semester hours.

The computer/digital option has 40 hours of core electrical engineering courses, 15 hours of other engineering, 19 hours computer engineering/science courses, 18 hours math, 13 hours science, 9 hours of writing and speech, and 21 hours general education courses for a total of 135 semester hours.

The biomedical option has 40 hours of core electrical engineering courses, 15 hours of other engineering, 18 hours mathematics, 33 hours science including biology and organic chemistry, 9 hours of writing and speech, and 21 hours general education courses for a total of 136 semesters hours.

Students in any of these options can participate in the co-op program. Scheduling is reasonably flexible, but there are some restrictions.

Course Scheduling

Scheduling of courses will depend upon your particular situation. Are you working part time? Will you be co-oping, either alternate or parallel? Do you wish a full- or part-time academic pursuit of the degree? Answers to these questions will affect your scheduling of courses. The Department of Electrical and Computer Engineering attempts to schedule junior and senior courses to accommodate these situations.

Advising is mandatory, and students are required to meet with their department advisors to choose their semester-by-semester courses. Also, up-to-date recommended schedule and curriculum lists are available on-line and at the department.
**Curricula**

**Traditional Option**

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<tr>
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**Total Hours** .............................................................131

*See end of this curriculum section for courses in these areas that are common to the three options.

**Suggested Schedule—Traditional Option**

**FIRST YEAR**

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**Suggested Schedule—Computer/Digital Option**

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### THIRD YEAR

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**Summary for Computer/Digital Option**

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*See end of this curriculum section for courses in these areas that are common to the three options.*
### FOURTH YEAR

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### Biomedical Option

**Elect & Comp Engin (ECEN)**

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<td>4811 Senior Laboratory</td>
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<tr>
<td>4899 Senior Design Project</td>
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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>1521L Basic Comp &amp; Dig Circs Lab</td>
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### Science

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<tr>
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<tr>
<td>CHEM 3719 Organic Chem 1</td>
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<td>CHEM 3720 Organic Chem 2</td>
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<tr>
<td>BIOL 2601 Gen Biol: Molec/Cells</td>
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<tr>
<td>BIOL 2602 Gen Biol: Org &amp; Ecol</td>
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<td>PHYS 2610 Gen Physics 1</td>
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### Summary for Biomedical Option

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*See end of this curriculum section for courses in these areas that are common to the three options.

### Suggested Schedule—Biomedical Option

#### FIRST YEAR

#### FALL

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<tbody>
<tr>
<td>MATH 1571 Calculus 1</td>
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<td>ENGR 1550 Engineering Concepts</td>
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<tr>
<td>CHEM 1515 General Chemistry 1</td>
<td>4</td>
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<tr>
<td>ENGL 1550 Writing 1</td>
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<tr>
<td>CMST 1545 Comm Thry &amp; Practice</td>
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#### SPRING

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<td>CHEM 1516 General Chemistry 2</td>
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<td>ENGL 1551 Writing 2</td>
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<tr>
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#### SECOND YEAR

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<td>PHYS 2610 General Physics 1</td>
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<td>CEEN 2601 Statics</td>
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<tr>
<td>ECEN 2612 Instru and Comput Lab 2</td>
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<td>PHYS 2611 General Physics 2</td>
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<td>PHYS 2610L General Physics Lab 1</td>
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<td>MECH 2641 Dynamics</td>
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### THIRD YEAR

#### FALL

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<td>ECEN 3741 Electromagnetic Theory 1</td>
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<td>ECEN 3771 Digital &amp; Analog Circuits 1</td>
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<tr>
<td>BIOL 2601 Gen Biology: Molec/Cells</td>
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<tr>
<td>PHIL 2625 Intro to Prof Ethics</td>
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#### SPRING

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<td>ECEN 3734 / 3772 / 3710</td>
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<tr>
<td>ECEN 3742 Electromagnetic Theory 2</td>
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<td>ECEN 4844 Electromag Energy Conversion</td>
<td>3</td>
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<tr>
<td>BIOL 2602 Gen Biology: Orgs/Ecology</td>
<td>4</td>
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<tr>
<td>ECON 2610 Principles 1</td>
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#### FOURTH YEAR

#### FALL

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<td>ECEN 4803 Linear Control Systems</td>
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<td>MATH 3715 Discrete Math</td>
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<td>ISEN 3710 Engineering Statistics</td>
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#### SPRING

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<td>CHEM 3720 Organic Chemistry 2</td>
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<td>Gen Ed Elective</td>
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#### Writing & Speech

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<tr>
<td>CMST 1545 Comm Thry &amp; Prac</td>
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<tr>
<td>ENGL 1550 Writing 1</td>
<td>3</td>
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<td>ENGL 1551 Writing 2</td>
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#### General Education (codes)

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<td>PHIL 2625 Intro Prof Ethics (PS)</td>
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<tr>
<td>Elective (AL)</td>
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<td>Elective (AL)</td>
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<td>Elective (SI)</td>
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#### Courses Common to All Options

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<tr>
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<td>ENGR 1560 Engineering Computing</td>
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<td>CEEN 2601 Statics</td>
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<tr>
<td>MECH 2641 Dynamics</td>
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<tr>
<td>ISEN 3710 Engin Statistics</td>
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<table>
<thead>
<tr>
<th>Mathematics Courses</th>
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<td>MATH 1572 Calculus 2</td>
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<td>MATH 2673 Calculus 3</td>
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<tr>
<td>MATH 3705 Differential Equations</td>
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<td>MATH 3715 Discrete Math</td>
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### DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING

330-941-3016

Profs Cala, Kim, Kudav, Mehri, Shields, Suchora (Chair); Associate Professors Marie, Wallace; Assistant Professors Panta, Solomon; Professor Emeritus Driscoll, McCoy.

The Department of Mechanical and Industrial Engineering is dedicated to further the missions and objectives of the University and the College of Science, Technology, Engineering and Mathematics. We focus on providing an opportunity for quality education in mechanical engineering and industrial and systems engineering, while offering professional service to local and regional industry and to the public. The department is committed to providing its students with a broad, general education and an up-to-date technological curriculum in a four-year undergraduate program. It also offers an application-oriented evening Master of Science in Engineering program to practicing engineers and recent engineering graduates.

### INDUSTRIAL AND SYSTEMS ENGINEERING PROGRAM

Profs Cala (Coordinator), Mehri; Prof Wallace; Prof Emeritus Driscoll.

The industrial and systems engineer functions as a problem-solver, innovator, coordinator, and agent of change in a wide variety of positions in manufacturing industries, service industries, and government. The industrial and systems engineer’s unique background combines a study of science, mathematics, and management principles with the principles of engineering analysis and design to provide access to a wide variety of flexible technical and managerial careers.
The aim of the industrial and systems engineering program is to produce graduates who secure professional engineering positions, who practice the profession ethically and effectively, who maintain their professional competency through lifelong learning, and who advance in one of the many technical and managerial career paths available to industrial and systems engineers. The program prepares its students for these accomplishments by providing them with a broad scientific and engineering background via courses in mathematics, physics, chemistry, and the engineering sciences. In addition, courses in the social sciences and the humanities develop sensitivity to the social context within which the profession must be ethically practiced. Finally, industrial and systems engineering courses in the areas of manufacturing systems, human-machine systems, management systems, and management science develop the technical expertise required by professional practice.

Program Educational Objectives

The industrial and systems engineering program at Youngstown State University is committed to offering its students a high standard of educational training. In fulfillment of its mission, as well as the missions of the College of STEM and the University, the program has established educational objectives that ensure graduating engineers have the educational knowledge and skills to practice industrial engineering effectively. The objectives of the Industrial and Systems Engineering Program are for our graduates to be:

- Professionals who are technically competent in modern industrial engineering-based careers, as well as other emerging disciplines.
- World citizens who exhibit leadership qualities in their chosen disciplines, and who pursue continuing education through advanced degrees, certifications, licensure, etc.
- Active contributors to their professions, industries, and/or communities.

Program Outcomes

To achieve the program educational objectives, our students are expected to have attained the required professional, technical, and social experience in the program with the ability to:

1-1. Apply knowledge of mathematics, science, and engineering science to solve engineering problems.

1-2. Utilize their design knowledge, skills, and technical experience to practice engineering.

1-3. Incorporate design of experiments with engineering analysis and design.

1-4. Use design techniques to design systems, components, and processes that satisfy predetermined economic, environmental, manufacturability, ethical, social, health, and safety constraints.

1-5. Recognize technical problems, develop ideas and formulate methods to determine acceptable solutions.

2-1. Work as a member of an engineering team in industrial engineering practice.

2-2. Accept project responsibilities and use problem solving skills.

2-3. Understand their professional roles and ethical responsibilities in the engineering profession and society.

3-1. Communicate their ideas and the application of engineering skills orally and/or in writing.

3-2. Understand the global impact of engineering solutions on societies needs.

3-3. Understand that the technology is constantly changing and industrial engineers must upgrade their knowledge in conjunction with the technological changes.

4-1. Recognize the importance of professional development through involvement and leadership in technical societies such as the IIE.

4-2. Have the broad knowledge to understand contemporary issues pertaining to the interaction between technology and society.

Industrial and Systems Engineering Laboratories

The industrial and systems engineering laboratory spaces are located in Moser Hall and are equipped with hardware, software and networks to serve experiences within the curriculum that are hands-on, team-based, and communications or computational intensive. Laboratory experiences develop capabilities to design detailed components and to integrate solutions into large-scale systems. Successively more challenging assignments are taken on throughout the curriculum and culminate in comprehensive experiences in the capstone facilities design sequence.

The industrial and systems engineering program makes optimum use of the Engineering Computing Complex, which is equipped with state-of-the-art computation, design, and communication hardware and software of a multi-disciplinary nature.

The ISE Project Laboratory is focused on team-based activities throughout the curriculum and particularly serves the methods engineering, human factors engineering and facilities design areas. At its core is a network of computing stations equipped with modern industrial & systems engineering software. Data collection and processing software supports video analysis of human performance, workspace and manufacturing cell design, facility layout, flow analysis and line balancing. The goal of this laboratory is to be able to cover any topic from the planning of initial resources for a start-up enterprise to the distribution of goods and services in global networks.
The Automation Laboratory Suite is a collection of spaces where students at all levels can learn and achieve together with an opportunity to make sustainable contributions to an initial or on-going project experience. It encompasses programmable robots, programmable logic controllers, vibratory bowl feeders, reciprocating feeders, power conveyors and numerous actuator and sensing devices.

The Manufacturing Laboratory Suite consists of several spaces containing equipment for rapid prototyping, casting processes, plastic injection molding and blow molding processes, CNC machining processes, sheet metal processing and instrumentation for inspection, measurement, and testing.

Curriculum for the Bachelor of Engineering Degree with a Major in Industrial and Systems Engineering

**FIRST YEAR**

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<thead>
<tr>
<th>COURSES</th>
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<tbody>
<tr>
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<td>CHEM 1515 Chemistry 1</td>
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<td>ENGR 1550 Engineering Concepts</td>
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**FALL**

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<td>PHYS 2610L Physics 1 Lab</td>
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<td>ENGR 1560 Engineering Computing</td>
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**SPRING**

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**THIRD YEAR**

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<td>ISEN Program Elective</td>
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<td>ISEN 5801 Operations Research 1</td>
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<td>CMST 1545 Comm Thry &amp; Practice</td>
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**FOURTH YEAR**

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<td>ISEN 5820 Advanced Quality</td>
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<td>ECEN 2632 Circuits</td>
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<td>ISEN 5830 Human Factors</td>
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<tr>
<td>STEM Science Elective</td>
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<tr>
<td>General Education Elective</td>
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<tr>
<td><strong>TOTAL</strong></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSES</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>128 s.h.</strong></td>
</tr>
</tbody>
</table>

All electives must be selected with the consent of the student's departmental program faculty advisor.

**Cooperative Education**

The industrial and systems engineering program strongly encourages its students to actively participate in the optional cooperative education program. The parallel co-op arrangement which combines work and study each semester is recommended. However, full time employment in the summer can also be included. Students must register for a co-op course and submit a documented work report and the co-op evaluations completed by the students and their supervisors for a final grade of credit/no credit. Currently a substitution of one elective course with three co-op experiences is allowed.
**Advisement**

The industrial and systems engineering program specifies mandatory advisement. Every student in the program is advised every semester before his or her registration. Students cannot finalize their registration without approval of the faculty advisor or program coordinator.

**MECHANICAL ENGINEERING PROGRAM**

Professors Kim, Kudav, McCoy, Shields, Suchora (Coordinator and Department Chair); Associate Professors Marie, Wallace; Assistant Professors Panta, Solomon; Professor Emeritus McCoy.

Mechanical engineering is the branch of the engineering profession that deals with the conversion and use of energy; the design of machines and engines; and the instrumentation and control of physical processes, systems and environments. The challenge of mechanical engineering is to use the principles of mathematics along with the physical and thermal sciences, to develop and construct well designed machines and machine systems. Mechanical engineers are concerned with the practical purpose and function of a machine or system, as well as its design for strength, reliability, safety, economy, and appearance.

**Program Mission**

The mission of the mechanical engineering program is to further the missions and objectives of the University and the College of Science, Technology, Engineering and Mathematics by providing an opportunity for a quality education in Mechanical Engineering to the people it serves, particularly those in northeast Ohio and western Pennsylvania. The program also strives to provide professional service to the local and regional industry and to the public. The program is committed to meeting regional and state-wide priorities in higher education by providing its students with a broad, general education and an up-to-date technological curriculum in a four-year undergraduate program, and an application-oriented evening graduate program offering a Master of Science in Engineering degree to practicing engineers and recent engineering graduates. The program also strives to enhance quality research and scholarly activities to be integrated with teaching and meet the needs of the region by providing area schools, businesses, industries, and government agencies with technical expertise.

**Program Educational Objectives**

- The program will provide an educational environment rich in opportunities for students to obtain the knowledge and skills that will prepare its graduates for successful careers as a mechanical engineer or for advanced studies.

**Program Outcomes**

- Our students will be able to perform well as mechanical engineers and understand the impact of engineering in a global, societal, and environmental context.
- Our students will be able to identify, formulate, and solve engineering problems by applying fundamental knowledge of mathematics, basic sciences, and engineering sciences.
- Our students will be able to utilize modern engineering techniques, skills, and tools with an emphasis on the role that computers play in the process of solving engineering problems.
- Our students will be able to design and conduct experiments and to analyze and interpret data.
- Our students will be able to design mechanical engineering systems, components, or processes to meet the desired needs.
- Our students will be able to function and communicate effectively both individually and within multidisciplinary teams.
- Our students will be able to understand contemporary issues, professional and ethical responsibility, and the necessity of engaging in life-long learning.

**Vision Statement**

Mechanical engineering and mechanical engineering education, in particular, face dramatic challenges in the future due to rapidly changing technologies and a new pattern of societal and industrial demands.
The vision of the program is to meet these challenges and exceed the expectations of its constituents by focusing on the following primary strategies of the program:

- Continuous improvement of an educational environment for outstanding teaching and learning
- Development of a productive research program through a strategic focus on technology development in emerging areas such as green energy, computer simulation, and nanotechnology
- Successful co-op and internship programs that provides students with on-the-job training opportunities
- An assessment program and procedures in order to insure a high quality program focusing on the needs of the program’s constituents; the students, alumni, employers, faculty, administrations, community and the general public
- Healthy enrollment that facilitates diversification of curriculum and faculty research and professional development

In order to achieve its educational objectives and to further the missions and objectives of the University and the College, the program provides an educational environment, teeming with opportunities for students to learn and acquire essential knowledge and skills that are defined in the ABET Criteria 2000, through its curriculum and extra-curricular activities. The program maintains undergraduate and graduate curricula that are well balanced in engineering fundamentals, state-of-the-art technology, and real-world engineering applications, in the primary specialty areas of fluid thermal sciences, and mechanics of deformable bodies. The undergraduate curriculum also contains courses that foster critical and independent thinking; decision making; development of interpersonal communication and a life-long learning attitude; working within a team; and integration of knowledge, skills, ethics, and personal responsibility.

While the program intends to cultivate the capabilities of its students’ problem solving, fundamental and advanced engineering analyses, design, research, and development, it also intends to provide the students with maximum exposure to hands-on, experimental skills to insure the high quality of its graduates. Through courses like stress analysis, thermal fluid applications, and finite element analysis, students will acquire strong tools for design and pertinent knowledge to solve real-world engineering problems. Our emphasis on engineering applications, computer simulation, and hands-on experience are complementary to each other and encourage students to apply analytical methods to engineering problems.

This approach enhances the effectiveness of teaching and also facilitates the students’ understanding of abstract and difficult subjects. The ultimate goal of the program is to provide the society and industry with “whole person” mechanical engineers with superior technical capability.

**Mechanical Engineering Laboratories**

The mechanical engineering program maintains six physical experimental laboratories in Moser Hall. A wide array of modern equipment, instrumentation devices, and department-owned computers are housed in spacious rooms that support academic instruction and research activities in applied thermodynamics, heating and air conditioning, fluid mechanics, heat transfer, stress analysis, vibrations, and acoustics. Other mechanical engineering laboratories are simulation and computing-related laboratories that include computer-aided design, machine design, kinematic and dynamic systems, and finite-element analysis. The College and the mechanical engineering program maintain modern computing facilities in Moser Hall and constantly upgrade hardware and software. The students and faculty also use the university computing facilities in Meshel Hall and Kilcawley Center.

**Curriculum for the Bachelor of Engineering Degree with a Major in Mechanical Engineering**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Courses</th>
<th>s.h.</th>
</tr>
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<tbody>
<tr>
<td>ENGL 1550, 1551 Writing 1,2</td>
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<tr>
<td>MATH 1571, 1572 Calculus 1,2</td>
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<tr>
<td>CHEM 1515 Chemistry 1</td>
<td>4</td>
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<tr>
<td>PHYS 2610 Physics 1</td>
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<tr>
<td>ENGR 1550, Engr Concepts</td>
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<tr>
<td>ENGR 1560 Engr Computing</td>
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<tr>
<td>CMST 1545 Comm Thry &amp; Price</td>
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<tr>
<td>GER Electives</td>
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**SECOND YEAR**

<table>
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<tr>
<td>MATH 2673 Calculus 3</td>
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<tr>
<td>MATH 3705 Differential Equations</td>
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<tr>
<td>PHYS 2611 Physics 2</td>
<td>4</td>
</tr>
<tr>
<td>CEEN 2601 Statics</td>
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<tr>
<td>CEEN 2602L Str of Material</td>
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<td>CEEN 2603 Str of Material Lab</td>
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<tr>
<td>MECH 2603 Thermodynamics 1</td>
<td>3</td>
</tr>
<tr>
<td>MECH 2604 Thermodynamics 2</td>
<td>3</td>
</tr>
<tr>
<td>MECH 2641 Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 2610 Principles 1</td>
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<tr>
<td>MECH 2606 Materials</td>
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MECHANICAL ENGINEERING ELECTIVES

THIRD YEAR

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<td>Engr Analysis</td>
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<td>MECH 3720</td>
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<tr>
<td>Fluid Dynamic</td>
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<td>MECH 3720L</td>
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<tr>
<td>Fluid Lab</td>
<td>1</td>
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<tr>
<td>MECH 3725</td>
<td></td>
</tr>
<tr>
<td>Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3742</td>
<td></td>
</tr>
<tr>
<td>Kinematics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 3751</td>
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<tr>
<td>Stress 1</td>
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<tr>
<td>MECH 3751L</td>
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<td>Stress 1 Lab</td>
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<tr>
<td>MECH 3762</td>
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<td>Machine Design</td>
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<td>MECH 3762L</td>
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<td>Machine Design Lab</td>
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<tr>
<td>ECEN 2632</td>
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<tr>
<td>Circuits 1</td>
<td>3</td>
</tr>
<tr>
<td>STAT 3743 or ISEN 3710 Engr Statistics</td>
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<tr>
<td>PHIL 2625</td>
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<tr>
<td>Prof Ethics</td>
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<td>GER Electives</td>
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<td>(Must take at least one from each group)</td>
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FOURTH YEAR

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<tr>
<td>MECH 4808</td>
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<tr>
<td>Mechanical System Design</td>
<td>2</td>
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<tr>
<td>MECH 4808L</td>
<td></td>
</tr>
<tr>
<td>Mechanical System Design Lab</td>
<td>1</td>
</tr>
<tr>
<td>MECH 4809</td>
<td></td>
</tr>
<tr>
<td>Mech Sys Design 2</td>
<td>3</td>
</tr>
<tr>
<td>MECH 4825L</td>
<td></td>
</tr>
<tr>
<td>Heat &amp; Thermo Lab</td>
<td>1</td>
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<tr>
<td>MECH 4881</td>
<td></td>
</tr>
<tr>
<td>Mech Vibrations</td>
<td>3</td>
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<tr>
<td>MECH 4881L</td>
<td></td>
</tr>
<tr>
<td>Mech Vibrations Lab</td>
<td>1</td>
</tr>
<tr>
<td>MECH Electives</td>
<td></td>
</tr>
<tr>
<td>(Must take at least one from each group)</td>
<td>12</td>
</tr>
<tr>
<td>GER Electives</td>
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</tr>
<tr>
<td>(Must take at least one from each group)</td>
<td>9</td>
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MECHANICAL ENGINEERING ELECTIVES

Courses

Heat & Fluid Flow

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MECH 4800</td>
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<tr>
<td>Special Topics Thermal</td>
<td>3</td>
</tr>
<tr>
<td>MECH 4823</td>
<td></td>
</tr>
<tr>
<td>HVAC</td>
<td>3</td>
</tr>
<tr>
<td>MECH 4835</td>
<td></td>
</tr>
<tr>
<td>Thermal Fluid Applic</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5811</td>
<td></td>
</tr>
<tr>
<td>Solar Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5825</td>
<td></td>
</tr>
<tr>
<td>Heat Transfer 2</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5836</td>
<td></td>
</tr>
<tr>
<td>Fluid Power and Control</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5885</td>
<td></td>
</tr>
<tr>
<td>Computational Fluid Dynamics</td>
<td>3</td>
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</table>

Solid Mechanics

<table>
<thead>
<tr>
<th>Courses</th>
<th>s.h.</th>
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</thead>
<tbody>
<tr>
<td>MECH 4800</td>
<td></td>
</tr>
<tr>
<td>Special Topics Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5842</td>
<td></td>
</tr>
<tr>
<td>Kinetics of Machines</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5852</td>
<td></td>
</tr>
<tr>
<td>Stress 2</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5872</td>
<td></td>
</tr>
<tr>
<td>Acoustics</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5884</td>
<td></td>
</tr>
<tr>
<td>Finite Element Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MECH 5892</td>
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</tr>
<tr>
<td>Control Mech Systems</td>
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Summary

Courses

<table>
<thead>
<tr>
<th>Courses</th>
<th>s.h.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Writing and Speech (3 courses)</td>
<td>9</td>
</tr>
<tr>
<td>Art &amp; Literature (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>Soc &amp; Institution (3 courses)</td>
<td>9</td>
</tr>
<tr>
<td>Pers &amp; Soc Responsibility (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>Nat Science (3 courses)</td>
<td>12</td>
</tr>
<tr>
<td>Mathematics (5 courses)</td>
<td>18</td>
</tr>
<tr>
<td>ENGR &amp; Other Engr Programs (6 courses)</td>
<td>16</td>
</tr>
<tr>
<td>Mechanical Engineering (23 courses)</td>
<td>56</td>
</tr>
</tbody>
</table>

Total .......................................................... 132 s.h.

Cooperative Education

The parallel co-op arrangement which combines work and study each semester is recommended. However, full time employment in the summer can also be included. Students must register for a co-op course and submit a documented work report, along with the co-op evaluations, completed by the students and their supervisors, for a final grade of credit/no credit.

Advisement

The mechanical engineering program specifies mandatory advisement. Every student in the program is advised every semester before his or her registration. Students cannot finalize their registration without approval of the faculty advisor or chair.

DEPARTMENT OF ENGINEERING TECHNOLOGY

330-941-3287

Professors Bosela, Messuri; Associate Professors, Kurtanich (Director), Lamb, Moy; Assistant Professors Costarell, George, Vuksanovich; Instructors Coyne, Hrinko; Faculty Emeriti Krygowski, Slanina, Zupanic.

The Department of Engineering Technology offers “two-plus-two” programs in engineering technology. Students in these programs may work toward a two-year associate degree and then continue to earn a four-year bachelor’s degree. The programs include both classroom and laboratory experiences which stress the application of established engineering and computer knowledge and methods to the solution of problems. They include study of the sciences and mathematics necessary to support a technology, as well as study of the methods, processes, skills, and materials used in that technology. The programs are designed to prepare graduates for job opportunities in industry and the public sector. Demands developed by an expanding technology place graduates of these programs in one of the fastest-growing occupational groups in the country.

Associate of Technical Study Degree

The Department of Engineering Technology offers Associate of Technical Study (A.T.S.) degrees in:

Electrical Utility Technology
Power Plant Technology

Students in these programs are awarded academic credit for skills-related experience and training to compliment the academic coursework at YSU.

Associate in Applied Science Degree

The department offers two-year programs in:

Civil and Construction Engineering Technology
Drafting and Design Technology
Electrical Engineering Technology
Mechanical Engineering Technology

Graduates of these programs are awarded the Associate in Applied Science degree and may serve as engineering technicians.

Graduates of the associate degree programs are prepared to support scientists and engineers. Their work is in the design, drafting (CAD), development, testing, and production phases of engineering projects. Their tasks include laboratory testing, data gathering, evaluation, and instrument calibration. They may perform quality-control tests, serve as technical sales representatives, or serve as technical writers in the formulation of specifications or trade manuals.

Drafting and design graduates work with engineers, architects, and technicians in converting ideas, designs, and sketches into workable plans and specifications using 2D and 3D solid modeling CAD techniques.

Degrees in these programs may be earned in four semesters if students average 17-18 hours per semester.

Bachelor of Science in Applied Science Degree

The civil and construction engineering technology, electrical engineering technology, and mechanical engineering technology programs are based on the “two-plus-two” educational system which provides the student with the flexibility of earning an associate degree and a bachelor’s degree according to his or her needs. After completing the requirements of the associate degree, the student may elect to either enter industry or, through an added two years of full-time study (averaging 17 hours per semester) or equivalent part-time study, earn the Bachelor of Science in Applied Science (B.S.A.S.).

Graduates of the B.S.A.S. degree program obtain employment as engineering technologists or engineering designers for government agencies, consulting engineers and architects, industry and manufacturing, and contractors. Because their education is more extensive, they are prepared for more responsibility and more-rapid advancement. B.S.A.S. engineering technologists and designers plan, design, inspect, and direct construction, production, and maintenance activities.

Based on an evaluation of their work, transfer students who have a related associate degree from a regionally accredited institution may be admitted to the bachelor’s degree program at the junior level.

Accreditation and Registration

The civil and construction, electrical, and mechanical engineering technology associate and bachelor programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC-ABET). Graduates are qualified to apply to the National Institute for Certification in Engineering Technologies (NICET) for certification procedures in various specialty areas, depending on academic major and employment area. In many states, including Ohio, West Virginia and Pennsylvania, bachelor’s degree graduates are qualified to take the Fundamentals of Engineering (FE) exam, and, with sufficient work experience, the Professional Engineers (PE) exam.

Cooperative Education

The School of Engineering Technology offers an optional cooperative education program for qualified students enrolled in the civil & construction engineering technology, electrical engineering technology, and mechanical engineering technology bachelor’s degree programs. Engineering technology students typically participate in a parallel co-op which includes full-time employment and part-time academic study. Details about the Engineering Technology co-op program may be obtained from the director of the School of Engineering Technology.

Admission Requirements

Admission to all School of Engineering Technology programs requires at least one year of high school algebra and one year of high school geometry with grades of C or better. Transfer students must be in good standing at their previous institution. All freshmen must take the Mathematics Placement Test prior to admission into the School of Engineering Technology.

Students not meeting the admission requirements are enrolled as pre-majors in the College of Science, Technology, Engineering, and Mathematics. While advising is provided by professional advisors within the college, these students are also encouraged to see the coordinator of the program in which they are interested for further orientation.

Qualified engineering technology students must enroll in the ENTC 1505/L courses. It is designed to acquaint students with the nature of this career area, and therefore assist prospective students in determining the level of their interest. ENTC 1505/L is required of all engineering technology majors.

CIVIL AND CONSTRUCTION ENGINEERING TECHNOLOGY

Associate Professor Lamb, Program Coordinator.

Students in the civil and construction engineering technology (CCET) program may choose to complete two years of study and earn an Associate in Applied Science (A.A.S.) degree. The A.A.S. degree provides early access to employment in engineering support positions. Upon completion of the A.A.S. degree, the student may continue on for the Bachelor of Science in Applied Science (B.S.A.S.) degree. This program provides additional coursework, continuing the student’s growth to that of an engineering technologist or designer. Exceptional students may
be eligible for enrollment in a Master of Engineering or Master of Business Administration program. Students interested in construction may choose a certificate program in construction management or the Associate of Technical Study degree in construction technology.

**Program Educational Objectives**

Educational objectives for the civil and construction engineering technology programs have been developed by faculty and the program industrial advisory committee to support the university, college, and School of Engineering Technology missions. Graduates of the CCET associate degree program are prepared to support civil engineers in structural design, public works, construction, inspection, transportation, and environmental engineering. Bachelor’s degree graduates are prepared to assist with planning, design, inspection, and direction of the construction of projects involving buildings, roads, dams, bridges, airports, and wastewater treatment facilities.

During their first few years after earning of the civil and construction engineering technology degree at YSU, graduates will have demonstrated the ability to:

- Secure employment in a technical career related to their civil and construction engineering technology degree.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition consistent with their educational achievements.

**Program Outcomes**

CCET students will demonstrate by the time of graduation:

- mastery of knowledge, techniques, skills, and modern tools of the discipline
- ability to apply current knowledge to solve problems
- ability to conduct, analyze, and interpret experiments
- ability to be creative in design
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical, and social responsibilities

- respect for diversity, professional, societal, and global issues
- commitment to quality, timeliness, and continuous improvement

**Associate Degree Program**

The associate degree program prepares technicians to support civil engineers in structural design, public works, construction, transportation, and environmental engineering. Most graduates are hired by government agencies, consulting engineers, architects, and contractors.

**Bachelor’s Degree Program**

The bachelor’s program in civil and construction engineering technology prepares students for employment as engineering technologists or engineering designers. The student can concentrate in structures, construction, or transportation as interests dictate. A co-op program with the Ohio Department of Transportation or with other technical firms enables CCET students to gain experience and income during their junior and senior years. Many students work full or part time while completing the B.S.A.S. degree by taking evening classes. Students are encouraged to take the Fundamentals of Engineering (FE) exam as the first step toward professional registration.

**Certificate Program—Construction Management Technology**

The certificate program in construction management technology provides an in-depth, focused study of the fundamental concepts of construction materials, specifications, and construction management. It also provides technical fundamentals for more advanced study in the field. The certificate program consists of the equivalent of one year of full time study. Contact the CCET program coordinator for more information.

**Individualized Curriculum Program (ICP)**

Drawing heavily from the civil and construction engineering technology program, students may develop an ICP in construction management that includes coursework from the Williamson College of Business Administration.

**Associate in Applied Science**

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>ENTC 1505L</td>
<td>Engr. Tech. Concepts Lab................. 1</td>
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<tr>
<td>MATH 1513</td>
<td>Algebraic &amp; Transc. Fens ................ 5</td>
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<tr>
<td>DDT 1503</td>
<td>AUTOCAD 1 .................................. 2</td>
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<td>DDT 1504</td>
<td>DRFT’G and Plan 2 .......................... 2</td>
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<td>ENGL 1550</td>
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<td>GER</td>
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<td><strong>Fall Semester</strong></td>
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**DRAFTING AND DESIGN TECHNOLOGY**

*Technical Electives*

YSU's drafting and design technology (DDT) program prepares students to function as design drafters in either the mechanical or civil field. They study various design aspects, such as determination of size, form, and clearance and CAD drafting where they convert ideas, sketches, and specifications into working drawings and plans. Graduates earn the associate degree and are employable in industries relating to manufacturing, quality control, materials, and the fabrication and production of building structures and metal products. Graduates interested in further technical education should consider the “two-plus-two” bachelor’s degree program in civil and construction engineering technology or mechanical engineering technology.

During their first few years after earning of the drafting and design technology degree at YSU, graduates will have demonstrated the ability to:

- Secure employment in a technical career related to their drafting and design technology degree.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition consistent with their educational achievements.

**Program Outcomes**

Drafting and design technology students will demonstrate by the time of graduation:

- Mastery of knowledge, skills, and tools of the discipline.
ability to apply knowledge to solve problems
- ability to conduct, analyze and interpret experiments
- ability to be creative in design
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical, and social responsibilities
- respect for diversity, professional, societal, and global issues
- commitment to quality, timeliness, and continuous improvement

Associate Degree Program

FIRST YEAR

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>MATH 1513 Algebra and Trans Functions</td>
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</tr>
<tr>
<td>ENTC 1505 Engr. Tech Concepts</td>
<td>3</td>
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<tr>
<td>ENCT 1505L Engr. Tech Concepts Lab</td>
<td>1</td>
</tr>
<tr>
<td>DDT 1503 AUTOCAD 1</td>
<td>2</td>
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<tr>
<td>DDT 1504 DRFT’G and Plan</td>
<td>2</td>
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<tr>
<td>ENGL 1550 Writing 1</td>
<td>3</td>
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SPRING

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>GER Elective*</td>
<td>3</td>
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<tr>
<td>CMST 1545 Comm Theory + Practice</td>
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<td>DDT 2608 Machine Elements</td>
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<td>Technical Elective</td>
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</table>

Semester Hours for Associate Degree | 64

* GER Elective must not be science

ELECTRICAL ENGINEERING TECHNOLOGY

Professor Messuri, Program Coordinator

Students in the electrical engineering technology (EET) program may choose to complete two years of study and earn an Associate in Applied Science (A.A.S.) degree. The A.A.S. provides early access to employment in engineering support positions. Upon completion of the A.A.S. degree, the student may continue on for the Bachelor of Science in Applied Science (B.S.A.S.) degree. This program provides additional coursework, continuing the student’s growth to that of an engineering technologist or designer. Exceptional students may be eligible for enrollment in a Master of Engineering or Master of Business Administration program.

Educational Objectives

Educational objectives for the electrical engineering technology programs have been developed by faculty and the program industrial advisory committee to support the University, College, and Rayen School of Engineering and Engineering Technology missions. Graduates of the EET associate degree program generally function as assistants to electrical engineers in the design, analysis, and laboratory testing of electrical and electronic systems and of rotating machinery. Bachelor degree graduates are prepared to assist in the design and testing of electrical systems and may function independently in some areas.

During their first few years after earning of the electrical engineering technology degree at YSU, graduates will have demonstrated the ability to:

- Secure employment in a technical career related to their Electrical Engineering Technology degree.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition consistent with their educational achievements.
Program Outcomes:

EET students will demonstrate by the time of graduation:

- mastery of knowledge, skills & tools of the discipline
- ability to apply knowledge to solve problems
- ability to conduct, analyze & interpret experiments
- ability to be creative in design
- ability to work effectively in teams
- ability to identify, analyze & solve technical problems
- ability to communicate effectively
- recognition of the need to engage in lifelong learning
- ability to understand professional, ethical & social responsibilities
- respect for diversity, professional, societal & global issues
- commitment to quality, timeliness & continuous improvement

Associate Degree Program

Graduates of the two-year electrical engineering technology program generally function as assistants to electrical engineers in the design, analysis, and laboratory testing of electrical and electronic systems and of rotating machinery. Most graduates are employed by electrical and electronic equipment manufacturers, utility companies, the aerospace industry, and manufacturing companies in general.

Several options are available for the associate degree in EET. Most students opt for the traditional or the computer option.

Bachelor’s Degree Program

The bachelor’s degree program in electrical engineering technology prepares students for employment as engineering technologists or engineering designers. The students focus on analog and digital electronics communication systems, and computer networking systems. Co-op programs with various local companies enable EET students to gain experience and income during their junior and senior years. Many students work full or part-time while completing the B.S.A.S. degree taking evening classes. Students are encouraged to take the Fundamentals of Engineering (FE) exam as the first step toward professional registration.

Associate Degree Program

TRADITIONAL OPTION

FIRST YEAR

FALL

Courses  s.h.
MATH 1513  Algebra/Trans functions .......................5
ENTC 1505  Engr. Tech Concepts ..........................3
ENTC 1505L  Engr. Tech Concepts Lab .......................1
EET 1501L  Circuit Theory 1 + Lab ..........................3+1
DDT 1503  AUTOCAD 1........................................2
DDT 1504  DRFTG and Plan ...................................2

SPRING

Courses  s.h.
MATH 1570  Applied Calculus 1 ............................4
PHYS 1501/L  Physics 1 + Lab .................................4+1
EET 1502/L  Circuit Theory 2 + Lab ..........................3+1
ENGL 1550  Writing 1 ..........................................3
EET 2620/L  Digital Electronics + Lab ...................2+1

SECOND YEAR

FALL

Courses  s.h.
EET 2605/L  Electronics 1 + Lab ............................3+1
EET 3710/L  Electrical Machines + Lab ........................3+1
ENGL 1551  Writing 2 ..........................................3
GER Elective .......................................................3
GER Elective .......................................................3

SPRING

Courses  s.h.
EET 3735/L  Microprocessor Arch. + Lab ....................3
EET 3706/L  Electronics 2 + Lab ..............................3+1
EET 3712/L  PLC’s + Lab ........................................3+1
CMST 1545  Comm Theory & Practice .....................3
CHEM 1515/L  Chemistry 1 & Lab ............................4

Semester Hours for AAS - Traditional Opt. .....71

COMPUTER OPTION

FIRST YEAR

FALL

Courses  s.h.
MATH 1513  Algebra/Transc. Functions ........................3
ENTC 1505  Engr. Tech Concepts ............................3
ENTC 1505L  Engr. Tech Concepts Lab ........................1
EET 150/L  Circuit Theory 1 + Lab ..........................3+1
EET 2650  PC Hardware .........................................3
GER Elective .......................................................3

SPRING

Courses  s.h.
MATH 1570  Applied Calculus 1 .............................4
EET 1502/L  Circuit Theory 2 + Lab ..........................3+1
EET 2620/L  Digital Electronics + Lab ........................2+1
ENGL 1550  Writing 1 ..........................................3
CSIS 2610  Prog. & Prob. Solving ..........................4

18
SECOND YEAR

FALL

Courses s.h.
EET 2605/L Electronics 1 + Lab ................... 3+1
ENGL 1551 Writing 2 ........................................ 3
EET 2651 Digital Comm. Systems 1 ............................. 3
CSIS 3782 Cisco Networking Academy 2 ........................ 4
GER Elective................................................................ 3

SPRING

Courses s.h.
EET 3735/L Microproc Arch. + Lab.................. 3
EET 2653 Fiber Optics...................................................... 3
CSIS 3783 Cisco Networking Academy 2 ........................ 4
CMST 1545 Comm. Theory & Practice .............. 3
PHYS 1501/L Physics 1 & Lab ........................................... 4+1

Semester Hours for AAS - Computer Opt. ........... 72

Bachelor’s Degree Program

THIRD YEAR

FALL

Courses s.h.
MATH 2670 Applied Calculus 2 ............................. 5
EET 3730/L Logic Systems + Lab .......................... 3
EET 3780/L Communication Systems + Lab ............. 3
ENGL 3743 Prof. & Tech. Comm. ............................. 3
GER Elective ................................................................ 3

SPRING

Courses s.h.
EET Elective .............................................................. 3
MET 3700 Physical Measurements ..................... 3
MET 2630/L Mfg. Techniques + Lab .................. 2+1
CCET 3705 Computing for Technologists ......... 3
GER Elective ................................................................ 3

FOURTH YEAR

FALL

Courses s.h.
EET 3745/L Microprocessor 2 + Lab ................... 3
EET Elective .............................................................. 3
Natural Science GER Elective ............................... 3
GER Elective................................................................ 3

SPRING

Courses s.h.
EET 3760/L Variable Speed Drives + Lab .......... 3
EET 4870 Process Control Technology .................. 4
EET 4880 Elec./Mech. Facilities Design ............. 3
CCET 4884 Civil/Struct. Facilities Design ......... 3
GER Elective................................................................ 3

Semester Hours for B.S.A.S................................. 134

MECHANICAL ENGINEERING TECHNOLOGY

Assistant Professor Costarell, Program Coordinator

The mechanical engineering technology (MET) program is designed as a “two-plus-two” program. Students may earn an Associate in Applied Science degree after two years of full-time study. With this degree, they may begin a career in industry. The associate degree graduate can continue for two more years of full-time study to earn the bachelor’s degree.

Educational Objectives

Educational objectives for the MET programs have been developed by faculty and the program industrial advisory committee to support the University, the College, and the Rayen School of Engineering and Engineering Technology missions. Graduates of the MET associate degree program function as assistants in the design, drafting and testing of mechanical products, equipment and processes. Bachelor’s degree graduates assume greater responsibility in the design and testing of mechanical products, processes, and equipment.

During their first few years after completion of the mechanical engineering technology program at YSU, graduates will have demonstrated the ability to:

- Work competently in technical and professional careers related to the field of mechanical engineering technology.
- Communicate effectively in a professional environment.
- Continue growth in professional knowledge and skills.
- Achieve recognition and/or compensation consistent with their educational achievements.

Program Outcomes

MET students will demonstrate by the time of graduation:

- mastery of knowledge, skills, and tools of the discipline
- ability to apply knowledge to solve problems
- ability to conduct, analyze, and interpret experiments
- ability to be creative in design
- ability to work effectively in teams
- ability to identify, analyze, and solve technical problems
- ability to communicate effectively
Youngstown State University

• recognition of the need to engage in lifelong learning
• ability to understand professional, ethical, and social responsibilities
• respect for diversity, professional, societal, and global issues
• commitment to quality, timeliness, and continuous improvement

### Associate Degree Program

The associate degree program introduces the student to the principles and practices of machine design, manufacturing processes, testing, and energy conversion. Students are also given a firm foundation in communications, mathematics and science. Upon completion of the associate degree, graduates may find employment as engineering technicians in a wide variety of industries. They assist engineers in the design, drafting, testing, and support of mechanical products, or of the industrial equipment and processes used to manufacture consumer products.

### Bachelor’s Degree Program

Students who have earned the associate degree may elect to complete the bachelor’s degree on either a full- or part-time basis. Courses in the bachelor’s degree program further develop technical, communication, and managerial skills. Upon successful completion of the coursework, graduates are awarded the Bachelor of Science in Applied Science degree, and are prepared for greater levels of responsibility and greater career advancement.

### Curriculum

#### FIRST YEAR

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<tr>
<td>MATH 1513</td>
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<tr>
<td>ENTC 1505</td>
<td>Engr. Tech Concepts ..........3</td>
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<tr>
<td>ENTC 1505L</td>
<td>Engr. Tech Concepts Lab ..........1</td>
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<tr>
<td>DDT 1503</td>
<td>AUTOCAD 1 ..........2</td>
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<td>DDT 1504</td>
<td>DRFT’G and Plan ..........2</td>
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<tr>
<td>ENGL 1550</td>
<td>Writing 1 ..........3</td>
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<td>CCET 2614</td>
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#### SECOND YEAR

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<tr>
<td>PHYS 1502/L</td>
<td>Physics 2 + Lab ..........3+1</td>
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<tr>
<td>MET 3714/L</td>
<td>Fluid Mechanics + Lab ..........2+1</td>
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#### THIRD YEAR

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<td>Heat &amp; Power Cycles ..........3</td>
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<td>Electromechanical Systems ..........4</td>
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<td>ISEN/MGT Elective</td>
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#### FOURTH YEAR

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<td>MET 4870</td>
<td>Applied Finite Elmnt ..........3</td>
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<tr>
<td>MET 4860/L</td>
<td>Robotics Technology + Lab ..........2+1</td>
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<td>..........3</td>
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<td>..........3</td>
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| Semester hours for B.S.A.S. | 134 |

* MET Electives
  - MET 3710 | Tool Design |
  - MET 4812 | Numerical Control |
  - MET 4890 | Special Topics in MET |
  - EET 4880 | Elec & Mech Facilities Design |
  - ENTC 4895 | Independent ET Project |

Youngstown State University Undergraduate Bulletin 235

MET 2616 | Mechanics 2 ..........3 |
MET 3706 | Machine Design 1 ..........3 |

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ELECTRIC UTILITY TECHNOLOGY

Professor Bosela, Program Coordinator

Please note that admission into the electric utility technology (lineworker) program has been suspended. Students currently enrolled in the program are expected to complete the program requirements by August 2011. Admission into the power plant technology program will continue. Please contact FirstEnergy at 1-800-829-6801 for information about the lineworker program.

POWER PLANT TECHNOLOGY

Mr. Daniel Coyne, Program Coordinator

This program prepares graduates to perform basic operating functions required in electric utility power plants and other related industries. Students gain knowledge in electrical theory, electrical machinery and controls, power plant operations, boiler, turbine, and generator operations, power plant instrumentation, and pollution control equipment. In addition, college writing, oral communications, and general education form an integral part of the program. Upon successful completion of the program, students are prepared for entry-level employment in the utility industry.

Associate of Technical Study Degree Program

FIRST YEAR

FALL

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<tr>
<td>ENGL 1550 College Writing 1 .................3</td>
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<td>ENTC 1500 Technical Skills Development ..........4</td>
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<td>EUT 1502/L Power Plant Fundamentals + Lab* ..........4+1</td>
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SPRING

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<td>EUT 1503/L Power Plant Mechanical Equipment + Lab ..........3+1</td>
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<td>MATH 2623 Survey of Math ..........3</td>
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<td>ENGL 1551 College Writing 2 .............3</td>
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<td>CSIS 1514 Business Computer Systems ..........3</td>
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SUMMER

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SECOND YEAR

FALL

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<td>EUT 2604/L Power Plant Elec. Equip. + Lab ........3+1</td>
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<td>EUT 2605/L Intermediate Power Plant Systems + Lab ........3+1</td>
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<td>EUT 2606 Power Plant Operator Practice ............3</td>
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<td>CMST 1545 Communication Theory and Practice ..........3</td>
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<td>GER—SI Society &amp; Institutions ..........3</td>
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<td>EUT 2607/L Power Plant Inst and Control + Lab ..........3+1</td>
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<tr>
<td>EUT 2608/L Advanced Power Plant Systems ..........3+1</td>
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<tr>
<td>MGT 3725 Fundamentals of Management (recommended) or</td>
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<td>MGT 3750 Human Behavior in Organizations ..........3</td>
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<td>GER—NS Nat. Sci. Elect and Lab ..........3+1</td>
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Semester Hours for degree ..................64-66

*Note: MATH 1501 or level 3 on the MPT and eligibility to take ENGL 1550 (i.e., completion of R&S&K and ENGL 1540 or test out) are prerequisites. ENTC 1500 is a pre- or co-requisite.
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FULL-SERVICE FACULTY

MARTIN A. ABRAHAM
Dean and Professor of Civil/Environmental and Chemical Engineering
B.S., Rensselaer Polytechnic Institute, 1982
Ph.D., University of Delaware, 1987

SAMUEL ADU-POKU
Associate Professor of Art
B.A., University of Science & Technology (UST), Ghana, 1987
Dip. Ed., University of Science & Technology (UST), Ghana, 1988
M.Ed., University of New Brunswick, (UNB), Canada, 1995
Ph.D., University of British Columbia (UBC), Canada, 2002

JAVED ALAM
Professor of Civil/Environmental and Chemical Engineering
B.E., Indian Institute of Technology, 1977
M.E., Asian Institute of Technology, 1979
Ph.D., Case Western Reserve University, 1983

ISAM E. AMIN
Associate Professor of Geological and Environmental Sciences
B.S., University of Khartoum, 1977
M.S., New Mexico Inst. of Mining & Technology, 1983
Ph.D., University of Nevada, Reno, 1987

CYNTHIA E. ANDERSON
Vice President of Student Affairs and Professor of Marketing
B.S., Youngstown State University, 1972
M.A., The Ohio State University, 1975
Ed.D., University of Akron, 1990

COREY E. ANDREWS
Associate Professor of English
B.A., Miami University, Ohio, 1992
M.A., Ohio University, 1995
Ph.D., Ohio University, 2000

JAMES ANDREWS
Professor of Physics and Astronomy
B.A., Bucknell University, 1979
J.D., University of Virginia School of Law, 1982
B.S., Cleveland State University, 1989
Ph.D./M.S., Case Western Reserve University, 1995, 1992

FELICIA P. ARMSTRONG
Assistant Professor of Geological and Environmental Sciences
B.S., University of Dayton, 1987
M.S., Alabama A&M University, 1996
Ph.D., Oklahoma State University, 2003

ABDURRAHMAN ARSLANYILMAZ
Assistant Professor of Computer Science and Information Systems
B.E., Gazi University, Turkey, 1998
M.Ed., University of Missouri, Columbia, 2002
SERVIO T. BECERRA  
Professor of Foreign Languages and Literatures  
M.A., University of Wisconsin-Milwaukee, 1967  
Ph.D., University of Wisconsin-Madison, 1973

ROBERT J. BEEBE  
Professor of Educational Foundations, Research, Technology and Leadership  
A.B., Harvard University, 1966  
M.Ed., The College of William and Mary, 1971  
Ed.D., The College of William and Mary, 1974

RAYMOND EMIL BEIERSDORFER  
Professor of Geological and Environmental Sciences  
B.A., Queens College, City University of New York, 1979  
M.S., University of California at Davis, 1982  
Ph.D., University of California at Davis, 1992

CHRISTOPHER BELLAS  
Assistant Professor of Criminal Justice and Forensic Sciences  
B.A., Edinboro University of Pennsylvania, 1997  
A.S., Edinboro University of Pennsylvania, 1998  
M.S., Youngstown State University, 2001  
ABD, Kent State University, 2006  
Ph.D., Kent State University, 2010

JAMES BENEDICT  
Instructor of Physical Therapy  
B.S., Allied Health, The Ohio State University, 1982  
M.Ed., Kent State University, 1989

RANDALL W. BENNER  
Instructor of Health Professions  
B.S., Youngstown State University, 1992  
M.Educ., Kent State University, 1994

TERRY BENTON  
Instructor of English  
B.S., Youngstown State University, 1999  
M.A., Youngstown State University, 2001

EWELINA BOCZKOWSKA  
Assistant Professor  
Dana School of Music  
B. Mus., McGill University, 2002  
Ph.D., University of California, 2009  
D.E.C., Jean-de-Brebeuf College and Vincent-d’Indy School of Music, 2000

THOMAS A. BODNOVICH  
Associate Professor of Computer Science and Information Systems  
B.S., Youngstown State University, 1979  
M.S., The Ohio State University, 1981  
M.B.A., Youngstown State University, 1995

BRIAN BONHOMME  
Associate Professor of History  
B.A., History, The City College New York of The City University of New York, 1993  
Ph.D., The Graduate School and University Center of The City University of New York, 2000

JULIE BLASKEWICZ BORON  
Assistant Professor of Psychology  
B.S., Slippery Rock University, 2001  
M.S., Pennsylvania State University, 2003  
Ph.D., Pennsylvania State University, 2005

THEODORE R. BOSELA  
Professor in the School of Technology  
B.E., Youngstown State University, 1981  
M.S., University of Akron, 1985  
Ph.D., University of Pittsburgh, 1993  
P.E., Ohio, Pennsylvania

CHERYL L. BOSLEY  
Associate Professor of Nursing  
B.S.N., Kent State University, 1979  
M.S.N., Kent State University, 1984  
Ph.D., Kent State University, 2005

FRANK J. BOSSO  
Professor of Human Performance and Exercise Science  
B.S., Slippery Rock University, 1978  
M.S., West Virginia University, 1979  
Ph.D., NEOUCOM/Kent State University, 1990

BEGE KAYE BOWERS  
Professor of English  
B.A., Vanderbilt University, 1971  
M.A., University of Tennessee, 1973  
Ph.D., University of Tennessee, 1984

JOAN BOYD  
Professor of Health Professions  
B.S., Youngstown State University, 1975  
M.A., Central Michigan University, 1980  
Ph.D., The Union Institute, 1993

PHILIP S. BRADY  
Professor of English  
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

MARGARET L. BRILEY  
Assistant Professor of Counseling and Special Education  
B.S., Spec. Educ., Indiana Univ. of PA, 1976  
Ph.D., University of Pittsburgh, 1999

STEVEN R. BROWN  
Professor of English  
B.A., University of California at Santa Cruz, 1974  
M.A., San Diego State University, 1979  
Ph.D., The University of Pittsburgh, 1996

JEFFREY M. BUCHANAN  
Associate Professor of English  
A.B., University of Michigan, 1990  
M.A., University of Pittsburgh, 1997  
Ph.D., University of Michigan, 2002

WILLIAM R. BUCKLER  
Associate Professor of Geography  
B.A., Wayne State University, 1969  
M.A., Michigan State University, 1973  
Ph.D., Michigan State University, 1981
ANNETTE M. BURDEN
Associate Professor of Mathematics and Statistics
B.S., Youngstown State University, 1976
M.S., Youngstown State University, 1980
Ph.D., Union Institute and University, 2002

DIANA BURKHART
Assistant Professor of Foreign Languages and Literatures
B.A., Reed College, 1997
M.A., University of Colorado, 2004
Ph.D., University of Virginia, 2008

MICHAEL BUTCHER
Assistant Professor of Biological Sciences
B.S., Christopher Newport University
M.S., Wake Forest University
Ph.D., University of Calgary, 2006

JONATHAN J. CAGUIAT
Associate Professor of Biological Sciences
B.S., University of Michigan Ann Arbor, 1988
Ph.D., Michigan State University, 1995

MARTIN CALA
Professor of Mechanical and Industrial Engineering
B.S.E., Duke University, 1978
M.S., Binghamton University, 1987
Ph.D., Binghamton University, 1991

CRAIG S. CAMPBELL
Professor of Geography
B.A., Indiana University (Purdue University at Indianapolis), 1984
M.A., University of Kentucky, 1987
Ph.D., University of Kansas, 1993

FRANK A. CASTRONOVO
Professor of Theater and Dance
B.A., Case Western Reserve University, 1965
M.A., University of Arizona, 1970
Ph.D., Kent State University, 1980

LINDA A. CAUSEY
Assistant Professor of Social Work
B.A., Michigan State University, 1971
M.S.W., University of Michigan, 1973
Ph.D., Michigan State University, 2004

DAWNA LYNN CERNEY
Assistant Professor of Geography
B.S., University of Lethbridge, Canada, 1994
M.E.D.es., University of Calgary, Canada, 2000
Ph.D., Texas State University, 2006

GUANG-HWA (ANDY) CHANG
Professor of Mathematics and Statistics
B.S., Nat’l. Taiwan Col. of Marine Sc. & Tech., China, 1981
M.S., Texas Tech University, Lubbock, 1987
Ph.D., Texas Tech University, Lubbock, 1993

HUAIYU (PETER) CHEN
Associate Professor of Accounting and Finance
B.A., Wuhan University, P.R.China, 1997
M.B.A., Clarkson University, New York, 1999
Ph.D., Syracuse University, 2003

CARL F. CHUEY
Professor of Biological Sciences
B.S. in Ed., Youngstown State University, 1966
M.S., Ohio University, 1969

GREGORY A. CLAYPOOL
Professor of Accounting and Finance
B.A., Kent State University, 1969
A.S., University of Chicago, 1974
M.B.A., Kent State University, 1977
Ph.D., Kent State University, 1988

MICHAEL C. CLAYTON
Associate Professor of Psychology
B.A., California State University, 1989
A.A., College of San Mateo, 1987
Ph.D., University of Nevada, 1998

CHRISTINE COBB
Associate Professor of Theater and Dance
B.S., Illinois State University, 1976
M.A., The Ohio State University, 1989

JEFFREY T. COLDREN
Professor of Psychology
B.A., Albright College, 1983
M.A., University of Kansas, 1988
Ph.D., University of Kansas, 1992

ELEANOR A. CONGDON
Associate Professor of History
B.A., Williams College, 1988
M.A., University of Minnesota, 1993
Ph.D., University of Cambridge—Gonville & Caius College, 1997

CHESTER R. COOPER, JR.
Professor of Biological Sciences
B.S., University of Pittsburgh, 1979
M.A., University of Texas, 1983
Ph.D., University of Texas, 1989

HERVE M. CORBÉ
Assistant Professor of Foreign Languages and Literatures
Faculte’ des Sciences, Universite’ de Rennes, 1966
Maitrise d’ Anglais, Universite’ de Bretagne Occidentale, 1971
C.A.P.E.S. d’ Anglais, Universite’ de Rennes, 1972
Ph.D., Pennsylvania State University, 1983

MICHAEL D. COSTARELL
Assistant Professor of Engineering Technology
B.S.M.E., Youngstown State University, 1989
M.S.M.E., Carnegie Mellon University, 1999

AMY L. CRAWFORD
Associate Professor of Communication
B.S., Miami University, 1991
M.A., Indiana State University, 1995
Ph.D., Florida State University, 2002

MICHAEL J. CRESCIMANNO
Professor of Physics and Astronomy
B.A., Princeton, 1985
Ph.D., University of California, Berkeley, 1991

MICHAEL ROBERT CRIST
Professor of Music
B.M., Ithaca College, 1978
M.M., Youngstown State University, 1983
Ph.D., Kent State University, 1998

DRAGANA CRNJAK
Assistant Professor of Art
B.F.A., University of Akron, 2002
M.F.A., Virginia Commonwealth University, 2004
LAUREN CUMMINS
Associate Professor of Teacher Education
B.S., Dyke College, 1978
M.Ed., Kent State University, 1982
Ed.D., Nova Southeastern University, 2000

REBECCA M. L. CURNALIA
Assistant Professor of Communication
B.A., Olivet College, 2001
M.A. Northern Illinois University, 2003
Ph.D., Kent State University, 2007

LARRY S. CURTIN
Associate Professor of Chemistry
B.S., Northern Illinois University, 1985
M.S., University of Wisconsin, Madison, 1986
Ph.D., University of Wisconsin, Madison, 1990

ROSEMARY D’APOLITO
Associate Professor of Sociology and
Anthropology
B.A., Youngstown State University, 1981
M.A., Kent State University, 1987
Ph.D., Kent State University, 1994

JOSEPH D’UVA
Assistant Professor of Art
B.F.A., The School of the Art Institute of Chicago, 1996
M.A., University of Iowa, 1999
M.F.A., University of Iowa, 2000

DONNA M. DeBLASIO
Professor of History
B.A., Youngstown State University, 1974
M.A., Youngstown State University, 1976
Ph.D., Kent State University, 1980

C. SUSAN deBLOIS
Associate Professor of Educational Foundations,
Research, Technology and Leadership
B.A., St. Joseph College, 1967
M.A., University of Iowa, 1974
M.S.W., University of Iowa, 1975
Ph.D., University of Iowa, 1984

MARIA E. DELOST
Professor of Health Professions
B.S., Youngstown State University, 1979
M.S., University of Akron, 1985
Ph.D., Virginia Commonwealth University, 2005

IVANIA DEL POZO
Professor of Foreign Languages
and Literatures
B.A., Barry College, 1968
M.A., City University of New York, 1974
Ph.D., City University of New York, 1977

SUZANNE DIAMOND
Associate Professor of English
B.A., Rutgers University, 1986
Ph.D., Rutgers University, 1996

JEFFREY C. DICK
Associate Professor of Geological and
Environmental Sciences
B.S., Kent State University, 1980
M.S., Kent State University, 1982
Ph.D., Kent State University, 1992

THOMAS P. Diggins
Associate Professor of Biological Sciences
B.A., Kent State University, 1986
M.S., State University of New York (SUNY), 1991
Ph.D., State University of New York, 1997

MARY LOU DIPILLO
Associate Professor of Teacher Education
B.A., Mercyhurst College, 1971
M.S., Youngstown State University, 1988
Ph.D., University of Akron, 1994

MARIANNE K. DOVE
Professor of Counseling and Special Education
B.S., Wittenberg University, 1969
M.Ed., Youngstown State University, 1983
Ph.D., Kent State University, 1986

VIRGINIA ANN DRAA
Assistant Professor of Human Ecology
B.S., Ed., Bowling Green State University, 1977
M.S., Ed., Bowling Green State University, 1978
Ed.D., Youngstown State University, 2005

PATRICK R. DURRELL
Associate Professor of Physics and Astronomy
B.S., Astronomy, University of Victoria, Canada, 1990
M.S., Physics, McMaster University, Canada, 1992
Ph.D., Physics, McMaster University, Canada, 1996

ADAM C. EARNHEARDT
Assistant Professor of Communication
B.S., Clarion University of Pennsylvania, 1995
M.S., Clarion University of Pennsylvania, 1999
Ph.D., Kent State University, 2007

MARY BETH EARNHEARDT
Assistant Professor of English
B.A./B.S., Clarion University, 1997
M.S., Clarion University, 1999
Ph.D., Kent State University, 2006

RENEE M. EGGERS
Associate Professor of Educational Foundations,
Research, Technology and Leadership
B.A., Youngstown State University, 1978

JANICE G. ELIAS
Professor of Human Ecology
B.S., Ohio University, 1971
M.S., Ohio University, 1978
Ph.D., The Ohio State University, 1989

KENT J. ENGELHARDT
Professor of Music
B.M., Youngstown State University, 1986
M.M., Youngstown State University, 1993
M.A., University of Pittsburgh, 1999
Ph.D., University of Pittsburgh, 2001
JOY CHRISTIANSEN ERB  
Assistant Professor of Art  
B.F.A., Miami University, 2001  
M.F.A., Texas Woman’s University, 2005

RANGAMOHAN V. EUNNI  
Associate Professor of Management  
M.S., University of Bath, Bath, UK, 1997  
DBA, Boston University, 2003

JACEK FABRYKOWSKI  
Professor of Mathematics and Statistics  
Masters, University of Warsaw, Poland, 1973  
Ph.D., University of Warsaw, Poland, 1989

DIANA L. FAGAN  
Professor of Biological Sciences  
B.S., University of Texas Medical Branch, 1976  
Ph.D., University of Texas Southwestern Medical Center, 1986

JOYCE A. FEIST-WILLIS  
Associate Professor of Teacher Education  
A.B., West Liberty State College, 1971  
A.M., West Virginia University, 1974  
Ed.D., West Virginia University, 1983

JOHN J. FELDMIEIER  
Assistant Professor of Physics and Astronomy  
B.A. and B.S., University of Texas, 1994  
Ph.D., Pennsylvania State University, 2000

MICHAEL FINNEY  
Professor of English  
B.A., Stanford University, 1962  
M.A., University of Iowa, 1968  
Ph.D., University of Iowa, 1975

STEPHEN R. FLORA  
Professor of Psychology  
B.A., University of North Carolina, Chapel Hill, NC, 1985  
M.S., University of Georgia, Athens, GA, 1987  
Ph.D., University of Georgia, 1990

NEIL FLOWERS  
Assistant Professor of Mathematics and Statistics  
B.S., Michigan State University, 1986  
M.A., Temple University, 1988  
Ph.D., Michigan State University, 1996

FRANCOIS P. FOWLER  
Assistant Professor of Dana School of Music  
B.M., University of Ottawa, 1996  
M.M., Florida State University, 1998  
D.M., Florida State University, 2002

TIMOTHY FRANCISCO  
Associate Professor of English  
B.A., Western Connecticut State University, 1987  
M.A., Western Connecticut State University, 1993  
Ph.D., University of Alabama, 2001

GORDON G. FRISOROA  
Assistant Professor of Criminal Justice and Forensic Sciences  
B.A., Mercyhurst College, Erie, PA, 1975  
M.S., Youngstown State University, 1990  
Ph.D., Kent State University, 1996

WILLIAM R. FRY  
Professor of Psychology  
B.S., Western Illinois University, 1972  
M.A., Wayne State University, 1976  
Ph.D., Wayne State University, 1979

SHEARLE FURNISH  
Dean and Professor of English  
A.B., Transylvania University, 1975  
M.A., University of Kentucky, 1978  
Ph.D., University of Kentucky, 1984

STEPHEN L. GAGE  
Professor of Music  
B.M., State University of New York, Fredonia, NY, 1978  
M.M., Eastman School of Music, Rochester, NY, 1983  
Ph.D., University of Illinois at Urbana-Champaign, 1994

JEANETTE M. GARR  
Professor of Civil/Environmental and Chemical Engineering  
B.A., State University of New York at Buffalo, 1978  
M.A., State University of New York at Buffalo, 1984  
Ph.D., State University of New York at Buffalo, 1989

RICHARD J. GAYDOS  
Assistant Professor of Computer Science and Information Systems  
B.S., Youngstown State University, 1979  
M.S., Youngstown State University, 1980  
M.S., Kent State University, 1983

WEIQING GE  
Assistant Professor of Physical Therapy  
B.S., Tianjin University, Tianjin, China, 1987  
M.S., Xi’an Medical University, Xi’an, China, 1992  
Ph.D., Peking Union Med. Coll. & Chinese Acad. of Med Sc., Beijing, China, 1996

MICHAEL D. GELFAND  
Professor of Music  
B.M., Indiana University, 1971  
M.M., Cleveland Institute of Music, 1974

WILLIAM H. GARR  
Professor of English  
B.A., DePaul University, 1978  
M.A., Penn State University, 1980  
Ph.D., University of Minnesota, 1987

JILL M. GIFFORD  
Assistant Professor of Biological Sciences  
B.S., Arizona State University, 1996  
Ph.D., Kent State University, 2001
DAVID VINCENT GILL
Assistant Professor of Art/Teacher Education
B.F.A., University of Illinois, Urbana
Champaign, 1989
M.A., University of Illinois, Urbana
Champaign, 1996
Ph.D., Northern Illinois University, 2008

KAREN GIORGETTI
Associate Professor of Psychology
B.S., Sweet Briar College, 1995
M.S., Purdue University, 1997
Ph.D., Purdue University, 2004

PRISCILLA N. GITIMU
Assistant Professor of Human Ecology
B.S., Moi University, Kenya, 1996
M.S., Ed. Southern Illinois University at
Carbondale, 1999
Ph.D., Southern Illinois University at
Carbondale, 2005

SUZANNE M. GIUFFRE
Associate Professor of Physical Therapy
B.S. P.T., Daemen College, 1992
Adv. Masters, Neurology,
Temple University, 1997
Ed.D., University of Pittsburgh, 2007

RANDALL E. GOLDBERG
Instructor/Degree Completion
Dana School of Music
B.M., University of Texas, 1996
M.M., New England Conservatory of Music,
Boston, 1998
A.B.D., Indiana University, Jacobs School of
Music, Bloomington expected 2009-10

RICHARD G. GOLDSWORTH, JR.
Assistant Professor of Mathematics and
Statistics
B.S., Carnegie Mellon University, 1976
M.S., University of Pittsburgh, 1981
Ph.D., University of Texas at Dallas, 1988

LEAH GONGOLA
Assistant Professor of Counseling and Special
Education
B.S., Ashland University, 2002
M.Ed., Kent State University, 2004
Ph.D., Kent State University, 2008

PAUL B. GORDIEJEW
Associate Professor of Sociology and Anthropology
B.A., Southern Connecticut State College, 1977
M.S., Southern Connecticut State College, 1980
Ph.D., University of Pittsburgh, 1993

JAY L. GORDON
Associate Professor of English
B.A., Brandeis University, 1991
M.A., Carnegie Mellon University, 1995
Ph.D., Carnegie Mellon University, 2001

DEBORAH DENISE GRAHAM
Assistant Professor of Teacher Education
B.A., Education, The University of Akron,
1984
M. Divinity Degree, Duke University,
Durham, North Carolina, 1987
Ph.D., Secondary Educ., The University of
Akron, 1998

BEVERLY ANN GRAY
Professor of Psychology
B.A., Adelphi University, 1971
M.A., Fordham University, 1974
Ph.D., Fordham University, 1986

BETTY L. GREENE
Instructor of Teacher Education
B.S., Elem. Educ., Miami University, 1974
M.Ed., Curriculum & Supervision, Miami
University, 1983

WILLIAM H. GREENWAY
Professor of English
B.A., Georgia State University, 1970
M.A., Tulane University, 1977
Ph.D., Tulane University, 1984

STANLEY D. GUZELL, JR.
Professor of Management
B.A., The Ohio State University, 1969
M.P.I.A., University of Pittsburgh, 1973
Ph.D., University of Pittsburgh, 1980

GUOHONG (HELEN) HAN
Assistant Professor of Management
B.A., Shandong Normal University, China,
1991
M.A., Shandong University, China, 1994
M.A., University of Minnesota, 2002
Ph.D., University of Illinois, 2007

SUZAN C. HARPER
Assistant Professor of Computer Science and Information Systems
B.F.A., University of Nebraska, 1969
M.S., Duquesne University, 2001
M.E., St. Lawrence University, 1977

PATRICIA HAUSCHILDT
Professor of English/Teacher Education
B.S., University of Wisconsin-River Falls, 1983
M.A., University of Wisconsin-Madison, 1992
Ph.D., University of Wisconsin-Madison, 1995

CAROL HAWKINS
Associate Professor of Human Ecology
B.S., Kent State University, 1968
M.A., Kent State University, 1988
Ph.D., Kent State University, 1996

VERNON F. HAYNES
Professor of Psychology
B.A., University of Central Florida, 1980
M.S., University of Florida, 1983
Ph.D., University of Florida, 1984

JOHN M. HAZY
Associate Professor of Criminal Justice and Forensic Sciences
B.A., Youngstown State University, 1988
M.A., Kent State University, 1990
Ph.D., Kent State University, 1995
CARMELLA M. HILL  
Instructor of Counseling and Special Education  
B.S., John Carroll University, Cleveland, 1998  
M.Ed., Cleveland State University, 2003  

RANDY L. HOOVER  
Professor of Teacher Education  
B.A., The Ohio State University, 1969  
M.A., Edinboro State University, 1977  
Ph.D., The Ohio State University, 1984  

CARY HORVATH  
Associate Professor of Communication  
B.A., Youngstown State University, 1989  
M.A., Kent State University, 1993  
Ph.D., Kent State University, 1999  

PATRICIA L. HOYSON  
Professor of Nursing  
B.S.N., Pennsylvania State University, 1986  
M.S.N., Kent State University, 1991  
Ph.D., University of Pittsburgh, 2001  

OU HU  
Associate Professor of Economics  
B.A., Logistics Management, Beijing Inst. of Business, 1997  
M.A., Financial Economics, West Virginia University, 2001  
Ph.D., West Virginia University, 2004  

ALLEN D. HUNTER  
Professor of Chemistry  
B.S., University of British Columbia, Canada, 1981  
Ph.D., University of British Columbia, Canada, 1985  

SHAKIR HUSAIN  
Professor of Civil/Environmental and Chemical Engineering  
B.S., The Aligarh Muslim University, 1974  
M.S., The Aligarh Muslim University, 1976  
M.S., University of Mississippi, 1984  
Ph.D., University of Mississippi, 1987  

MARLEEN IANNUCCI  
Professor of Physical Therapy  
B.A., Kent State University, 1973  
B.S., Marquette University, 1979  
M.S., Ohio State University, 1986  
Ph.D., Ohio State University, 1990  

SYLVIA IMLER  
Associate Professor of Counseling and Special Education  
B.S., Education, East Texas State University (Texas A&M at Commerce), 1975  
M.S., Education, Youngstown State University, 1986  
Ph.D., Religion & Society, Oxford Graduate School, Tennessee, 1993  

A.K.M. ANWARUL ISLAM  
Associate Professor of Civil/Environmental and Chemical Engineering  
B.S., Bangladesh Univ. of Engin. & Tech., 1992  
M.S., Florida State University, 2000  
Ph.D., Florida State University, 2005  

CRYSHANNA A. JACKSON  
Assistant Professor of Political Science  
B.S., Miami University  
M.S., West Virginia University  
Ph.D., Urban Studies & Public Affairs, University of Akron, Dec. 2006  

JOHN A. JACKSON  
Associate Professor of Chemistry  
B.A., University of Minnesota, 1982  
Ph.D., University of Iowa, 1990  

ALAN M. JACOBS  
Professor of Geological and Environmental Sciences  
A.B., The City University of New York, 1963  
A.M., Indiana University, Bloomington, 1965  
Ph.D., Indiana University, Bloomington, 1967  

JALAL JALALI  
Professor of Electrical and Computer Engineering  
B.S., University of Missouri, Columbia, 1979  
M.S., University of Missouri, Columbia, 1980  
Ph.D., University of Missouri, Columbia, 1984  

JOZSI Z. JALICS  
Assistant Professor of Mathematics and Statistics  
B.S., John Carroll University, 1996  
M.S., The Ohio State University, 1999  
Ph.D., The Ohio State University, 2002  

MOLLY M. JAMESON-COX  
Assistant Professor of Psychology  
B.S., Indiana State University, 2002  
M.A., Ball State University, July 2005  
Ph.D., Ball State University, July 2005  

MADALYN JANOSIK  
Instructor of Nursing  
B.S.N., The Ohio State University, 1967  
M.S.N., Catholic University of America, 1985  

QI JIANG  
Professor of Sociology and Anthropology  
B.A., Second Beijing Inst. of Foreign Languages, Beijing, China, 1972  
Diploma in English Literature, Carleton University, Ottawa, Canada, 1977  
M.A., University of Pittsburgh, 1986  
Ph.D., University of Pittsburgh, 1994  

CARL G. JOHNSTON  
Associate Professor of Biological Sciences  
B.S., University of Manitoba, 1981  
M.S., University of Alaska, 1986  
Ph.D., University of Cincinnati, 1992  

DEBBIE JURUAZ  
Professor of Health Professions  
B.S., The Ohio State University, 1975  
D.D.S., The Ohio State University, 1983  

DIANE P. KANDRAY  
Associate Professor of Health Professions  
R.D.H., Ohio State University, 1984  
B.S. Ed., Ohio State University 1984  
M.Ed., Kent State University, 1990  

BIRSEN KARPAK  
Professor of Management  
D.B.A., University of Istanbul, Turkey, 1974
RAM M. R. KASUGANTI  
Professor of Management  
B.S.M.E., Osmania University, India, 1968  
M.S.I.E., Purdue University, 1970  
M.B.A., Kent State University, 1974  
D.B.A., Kent State University, 1976

PETER J. KASVINSKY  
Dean and Professor of Biochemistry  
B.S., Bucknell University, 1964  
Ph.D., University of Vermont, 1970

LOUIS E. KATZ  
Professor of Management  
B.A., Kent State University, 1971  
J.D., Cleveland State University, 1974  
B.S., Illinois State University, 1977

BRUCE KEILLOR  
Associate Professor of Marketing  
B.A., University of Minnesota, 1987  
M.B.A., Minnesota State University, 1989  
Ph.D., University of Memphis, 1994

SHIRLEY M. KELLER  
Associate Professor of Social Work  
B.A., Michigan State University, 1968  
M.S., Case Western Reserve University, 1981  
Ph.D., Case Western Reserve University, 1999

STEVEN L. KENT  
Professor of Mathematics and Statistics  
B.A., Adelphi University, 1976  
M.A., University of Pittsburgh, 1979  
Ph.D., University of Pittsburgh, 1982

G. JAY KERNS  
Associate Professor of Mathematics and Statistics  
B.A., Glenville State College, 1999  
M.A., Math/Statistics, Bowling Green State University, 2000  
Ph.D., Bowling Green State University, 2004

JANE E. KESTNER  
Professor of Psychology  
B.S., Ball State University, 1973  
M.A., University of Notre Dame, 1975  
Ph.D., University of Notre Dame, 1978

HONG YUNG KIM  
Professor of Teacher Education  
B.A., Sung-Kyun-Kwan University, 1964  
M.E., Seoul National University, 1969  
Ph.D., Ball State University, 1974

HYUN W. KIM  
Professor of Mechanical and Industrial Engineering  
B.S., Seoul National University, 1968  
M.S., University of Michigan, 1975  
Ph.D., University of Toledo, 1980  
P.E., Ohio

SUNGSOO KIM  
Assistant Professor of Human Ecology  
B.S., Kyonggi University, 2001  
M.S., Pennsylvania State University, 2003  
Ph.D., University of Florida, 2008

TAMMY CALLIHAN KING  
Associate Professor of Criminal Justice and Forensic Sciences  
B.S., Youngstown State University, 1987  
M.S., Youngstown State University, 1990  
Ph.D., Indiana University of Pennsylvania, 1996

BRIAN D. KISER  
Assistant Professor of Dana School of Music  
B.M.E., University of Northern Iowa, 1998  
M.M., (Tuba Performance), University of Illinois, 2000  
D.M.D., Indiana University of Jacobs School of Music, 2007

JAMES M. KOHUT  
Associate Professor of Marketing  
B.S., Bowling Green State University, 1974  
M.B.A., Youngstown State University, 1980  
Ed.D., University of Akron, 1988

ANTHONY J. KOS  
Associate Professor of Management  
B.S. in B.A., Youngstown State University, 1983  
M.B.A., Youngstown State University, 1987  
Ph.D., Kent State University, 1997

ROBERT W. KRAMER  
Associate Professor of Computer Science and Information Systems  
B.S., Youngstown State University, 1987  
M.S., University of Pittsburgh, 1991  
Ph.D., University of Pittsburgh, 1998

VICTORIA E. KRESS  
Professor of Counseling and Special Education  
M.A. Ed., The University of Akron, 1995  
Ph.D., The University of Akron, 1999

JOHANNA K. KRONTRIRIS-LITOWITZ  
Professor of Biological Sciences  
B.A., Case Western Reserve University, 1974  
M.S., Case Western Reserve University, 1977  
Ph.D., Cleveland State University, 1984

CHRISTOPHER KRUMMEL  
Professor of Music  
B.M., Miami University, Oxford, OH, 1985  
M.M., University of Illinois at Urbana Champaign, 1992  
D.M.A., University of Illinois at Urbana Champaign, 1997

GANESH KUDAV  
Professor of Mechanical and Industrial Engineering  
B.S., University of Bombay, 1977  
M.S., Mississippi State University, 1981  
Ph.D., Texas Tech University, 1988

DAVID G. KURTANICH  
Associate Professor of Engineering Technology  
B.E.C.E., Youngstown State University, 1978  
M.S.C.E., Carnegie Mellon University, 1980  
P.E., Ohio, Pennsylvania
BONNIE YOUNG LAING  
Associate Professor of Social Work  
M.S.W., West Virginia University, 1992  
Ph.D., Virginia Commonwealth University, 2003  

CAROL M. LAMB  
Associate Professor of Engineering Technology  
B.S., Youngstown State University, 2001  
M.S.E., Youngstown State University, 2005  

NANCY CRUM LANDGRAFF  
Associate Professor of Physical Therapy  
B.S., University of Pittsburgh, 1982  
M.H.S., University of Florida, 1988  
Ph.D., University of Pittsburgh, 2004  

DENNIS R. LATESS  
Assistant Professor of Human Performance and Exercise Science/Teacher Education  
B.S., Youngstown State University, 1975  
M.S., Youngstown State University, 1985  
Ph.D., The Ohio State University, 1988  

DAVID B. LAW  
Professor of Accounting and Finance  
B.A., Youngstown State University, 1975  
M.B.A., Youngstown State University, 1985  
Ph.D., Cleveland State University, 1994  

ALINA LAZAR  
Associate Professor of Computer Science and Information Systems  
B.S., Western University of Timisoara, Romania, 1995  
Ph.D., Wayne State University, 2002  

KENNETH LEARMAN  
Associate Professor of Physical Therapy  
B.S., P.T., State University of New York at Buffalo, 1989  
M.E., H.E., Pennsylvania State University, 1993  
Ph.D., University of Pittsburgh, 2007  

THOMAS E. LEARY  
Associate Professor of History  
B.A., John Fisher College, 1969  
Ph.D., Brown University, 1985  

LOREN R. LEASE  
Associate Professor of Sociology and Anthropology  
B.A., Kenyon College (Ohio), 1994  
M.A., The Ohio State University, 1996  
Ph.D., The Ohio State University, 2003  

HAE-JONG LEE  
Associate Professor of Music  
B.M., Seoul National University, 1989  
M.M., Westminster Choir College, 1995  
D.M.A., University of Illinois at Urbana, Champaign, 2003  

ROBERT E. LEIPHEIMER  
Professor of Biological Sciences  
B.A., Thiel College, 1972  
M.S., Slippery Rock State College, 1979  
Ph.D., The Ohio State University, 1981  

ALYSSA LENHOFF
CLOVIS LINKOUS  
Professor of Chemistry  
B.S., Purdue University  
Ph.D., Michigan State University, 1983

SUSAN A. LISKO  
Assistant Professor of Nursing  
B.S.N., Youngstown State University, 1984  
M.S.N., Gannon University, 1992  
D.N.P., Case Western Reserve University, 2009

HEATHER E. LORIMER  
Associate Professor of Biological Sciences  
A.B., The University of Chicago, 1982  
M.A., Columbia University, 1988  
M.Phil., Columbia University, 1989  
Ph.D., Columbia University, 1992

SUSAN A. LISKO  
Assistant Professor of Nursing  
B.S.N., Youngstown State University, 1984  
M.S.N., Gannon University, 1992  
D.N.P., Case Western Reserve University, 2009

HEATHER E. LORIMER  
Associate Professor of Biological Sciences  
A.B., The University of Chicago, 1982  
M.A., Columbia University, 1988  
M.Phil., Columbia University, 1989  
Ph.D., Columbia University, 1992

SHERRI R. LOVELACE-CAMERON  
Associate Professor of Chemistry  
B.S., Drexel University, 1986  
Ph.D., University of Pittsburgh, 1992

THOMAS A. MARAFFA  
Professor of Geography  
B.A., The Ohio State University, 1975  
M.A., The Ohio State University, 1977  
Ph.D., The Ohio State University, 1980

Hazel Marie  
Assistant Professor of Mechanical and Industrial Engineering  
B.S.M.E., University of Texas-Austin, 1984  
M.S.E., Youngstown State University, 1998  
Ph.D., University of Akron, 2005

DON MARTIN  
Professor of Counseling and Special Education  
B.A., Roanoke College, 1974  
M.S., Radford University, 1976  
Ph.D., North Texas State, 1981

SCOTT C. MARTIN  
Professor of Civil/Environmental and Chemical Engineering  
B.A., Clarkson College of Technology, 1977  
M.S., Clarkson College of Technology, 1979  
Ph.D., Clarkson College of Technology, 1984

NDINZI MASAGARA  
Associate Professor of Foreign Languages and Literatures  
M.A., University of Southern California, 1986  
Ph.D., University of Southern California, 1991

MARCIA MATANIN  
Professor of Human Performance and Exercise Science  
B.S., Youngstown State University, 1987  
M.E., Kent State University, 1990  
Ph.D., Ohio State University, 1993

WALTER T. MATHEWS  
Associate Professor of Communication  
A.B., Oberlin College, 1974  
M.S., Case Western Reserve University, 1977  
Ph.D., Michigan State University, 1987

GEORGE McCLOUD  
Professor of Communication  
B.A., Eastern Michigan University, 1967  
M.A., University of Michigan, 1968  
Ph.D., University of Michigan, 1975

CHRISTINE McCULLOUGH  
Assistant Professor of Art  
B.F.A., University of Maryland, Baltimore County, 1978  
M.F.A., Maryland Institute College of Art, 1993

RICHARD A. McEWING  
Professor of Educational Foundations, Research, Technology and Leadership  
B.S., Northern State College, 1968  
M.A.T., Harvard University, 1973  
Ed.D., University of Colorado, Boulder, 1978

BENJAMIN L. McGEE  
Assistant Professor of Counseling and Special Education  
B.A., Ed., Ohio State University, 1972  
M.S., Ed., Youngstown State University, 1978  
Ph.D., Youngstown State University, 2006

RENEE McMANUS  
Assistant Professor of Nursing

DONNA J. McNIERNEY  
Professor of Educational Foundations, Research, Technology and Leadership  
B.S., Ball State University, 1967  
M.S., Butler University, 1973  
M.A., Ball State University, 1981  
Ed.D., Ball State University, 1983  
M.S., Kent State University, 2004

HOJJAT MEHRI  
Professor of Mechanical and Industrial Engineering  
B.Sc., Abadan Institute of Technology, 1968  
M.S., Illinois Institute of Technology, 1973  
Ph.D., Illinois Institute of Technology, 1981

ANTHONY P. MESSURI  
Professor in the School of Technology  
B.E., Youngstown State University, 1977  
M.S., Youngstown State University, 1979  
Doctor of Engr., Cleveland State University, 1987  
P.E., Ohio and Pennsylvania

HOWARD D. METTEE  
Professor of Chemistry  
B.A., Middlebury College, 1961  
Ph.D., University of Calgary, 1964

KENNETH L. MILLER  
Professor of Counseling and Special Education  
B.A., Purdue University, West Lafayette, 1979  
M.S., Purdue University, Calumet, 1985  
Ph.D., Purdue University, West Lafayette, 1990

XIAOJIA MIN  
Assistant Professor of Biological Sciences  
B.S., Laiyang Agricultural College, China, 1984  
M.S., Beijing Agricultural University, 1987  
Ph.D., University of Hawaii, 1995  
M.S., University of British Columbia, 2002

DARYL W. MINCEY  
Professor of Chemistry  
B.S., University of Cincinnati, 1972  
M.S., University of Cincinnati, 1974  
Ph.D., University of Cincinnati, 1979
JEANINE L. MINCHER  
Assistant Professor of Human Ecology  
B.S., Youngstown State University, 1985  
M.S., Youngstown State University, 1989  
Ph.D., Kent State University, 2010  

MUSTANSIR MIR  
Professor of Philosophy and Religious Studies  
B.A., Punjab University, Lahore, Pakistan, 1967  
M.A., Punjab University, Lahore, Pakistan, 1969  
M.A., University of Michigan, Ann Arbor, 1980  
Ph.D., University of Michigan, Ann Arbor, 1983  

JOSEPH J. MISTOVICH  
Professor of Health Professions  
A.A.S., Youngstown State University, 1982  
B.S., Youngstown State University, 1985  
M.Ed., Kent State University, 1988  

DENNIS MORAWSKI  
Associate Professor of Social Work  
B.S., Lake Superior State College, 1978  
M.S.W., Wayne State University, 1980  
Ph.D., University of Tennessee, 1990  

DAVID S. MORGAN  
Associate Professor of Dana School of Music  
B.M., University of Texas, 1990  
M.M., University of Texas, 1993  
D.M.A., University of Texas, 1996  

GREG MORING  
Professor of Art  
B.F.A., State University of New Paltz, New Paltz, NY, 1973  
M.F.A., Rinehart School of Sculpture, Maryland Inst. College of Art, Baltimore, MD, 1975  

JOSEPH L. MOSCA  
Dean and Professor of Health and Human Services  
B.S.W., University of Illinois at Chicago, 1980  
M.S.W., University of Illinois at Chicago, 1981  
Ph.D., University of Pittsburgh, 1992  

NANCY W. MOSCA  
Professor of Nursing  
B.S.N., University of Illinois, 1977  
M.S., University of Illinois, 1982  
Ph.D., Case Western Reserve University, 1995  

MICHAEL T. MOSELEY  
Professor of Art  
B.F.A., Texas Tech University, 1973  
M.F.A., Texas Tech University, 1976  

ALLAN MOSHER  
Professor of Music  
B.A., San Francisco State University, 1974  
B.A., University of California at Berkeley, 1977  
M.M., Eastman School of Music, 1978  
D.M.A., University of Cincinnati, 1986  

FARAMARZ MOSSAYEBI  
Associate Professor of Electrical and Computer Engineering  
B.E., Youngstown State University, 1981  
M.S., Youngstown State University, 1987  
M.S., Youngstown State University, 1990  
Ph.D., University of Akron, 1994  

DEBORAH S. MOWER  
Assistant Professor of Philosophy and Religious Studies  
B.A., Pacific University, 1998  
M.A., University of Wisconsin-Madison, 2003  
Ph.D., University of Wisconsin-Madison, 2007  

KIN PING MOY  
Associate Professor of School of Technology  
B.E., Youngstown State University, 1971  
M.S., Youngstown State University, 1973  

NICOLE MULLINS  
Associate Professor of Human Performance and Exercise Science  
B.S., University of New Hampshire, 1994  
M.A., Kent State University, 1997  
Ph.D., Kent State University, 2002  

PHILIP C. MUNRO  
Professor of Electrical Engineering  
B.S.E.E., Washington University, 1960  
M.S., Washington University, 1964  
Ph.D., Purdue University, 1973  

JOHN MURPHY  
Professor of Theater and Dance  
B.A., Arizona State University, 1977  
M.F.A., The University of Arizona, 1979  

DENISE A. NARCISSE  
Assistant Professor of Sociology and Anthropology  
B.A., University of Illinois at Chicago, 1977  
M.A., University of Illinois at Chicago, 1997  
M.P.A., Roosevelt University, Chicago, 1980  
Ph.D., University of Illinois at Chicago, 2006  

MICHELLE NELSON  
Associate Professor of Art  
B.F.A., Herron School of Art, 1993  
M.F.A., Indiana University, 1998  

PETER NORRIS  
Professor of Chemistry  
B.S., The University of Salford (England), 1986  
Ph.D., The Ohio State University, 1992  

VALERIE MARIE O’DELL  
Assistant Professor of Nursing  
B.S.N., Youngstown State University, 1985  
M.S.N., Kent State University, 1993  
D.N.P., Case Western Reserve University, 2009
TOM NELSON ODER
Associate Professor of Physics and Astronomy
B.S., Makerere University, Uganda, 1984
M.S., University of St. Andrews, UK, 1986
CAROLINE OLMANN
Professor of Music
Diploma, Greiburg, Germany, 1989
M.M., University of Southern California, Los Angeles, 1991
D.M.A., University of Southern California, 1995
ANITA C. O'MELLAN
Professor of Mathematics and Statistics
B.S., Southern Illinois University, Carbondale, 1987
M.S., Texas A & M University, College Station, 1988
Ph.D., Memphis State University, 1993
MATT O'MANSKY
Assistant Professor of Sociology and Anthropology
B.A., Indiana University, 1991
Ph.D., Vanderbilt University, 2007
DANIEL J. O'NEILL
Professor of Communication
B.A., Wayne State University, 1961
M.A., Bowling Green State University, 1962
Ph.D., Michigan State University, 1969
CHRISTIAN C. ONWUDIWE
Assistant Professor of Criminal Justice and Forensic Sciences
B.A., Southern Univ. and A & M College, 1986
M.A., Southern Univ. and A & M College, 1988
Ph.D., Howard University, 1995
TOMI P. OVASKA
Assistant Professor of Economics
M.A., West Virginia University, 2001
M.A., University of Jyvaskyla (Finland), 1997
Ph.D., West Virginia University, 2003
ALFRED W. OWENS
Professor of Communication
B.A., Baldwin-Wallace College, 1969
M.A., Kent State University, 1971
Ph.D., Kent State University, 1983
JOSEPH PALARDY
Associate Professor of Economics
B.S., Frostburg State University, 1997
Ph.D., West Virginia University, 2002
MARTHA PALLANTE
Professor of History
B.A., Youngstown State University, 1977
M.A., College of William and Mary, 1982
Ph.D., University of Pennsylvania, 1988
GABRIEL PALMER-FERNANDEZ
Professor of Philosophy and Religious Studies
B.S., Florida International University, 1977
M.A., West Georgia College, 1978
M.T.S., Harvard University, The Divinity School, 1981
A.M., Harvard University, 1988
Ph.D., Harvard University, 1992
J. RAJENDRAN PANDIAN
Assistant Professor of Management
B.Tech. in Elec. Engr, Indian Institute of Technology, Madras, India, 1971
M.Tech., Elec. Engr., Regional Engineering College, Warangal, Osmania University, 1973
M.B.A., Xavier Labor Relations Institute, Jamshedpur, India, 1983
Ph.D., University of Illinois at Urbana-Champaign, 1995
SALVATORE R. PANSINO
Professor of Electrical Engineering
B.S., Carnegie Institute of Technology, 1957
M.S., Franklin and Marshall College, 1961
Ph.D., Carnegie-Mellon University, 1968
YOGENDRA PANTA
Assistant Professor of Mechanical and Industrial Engineering
B.S., Tribhuvan University, 1995
M.S., Youngstown State University, 2004
Ph.D., University of Nevada (UNLV), 2008
B.E., Tribhuvan University, 2000
CATHY BIEBER PARROTT
Assistant Professor of Physical Therapy
B.S. in P.T., University of Texas Medical Branch, 1984
Advanced Masters in Sports Medicine, University of Pittsburgh, 1994
MATTHEW PAYLO
Assistant Professor of Counseling and Special Education
B.S., Grove City College, 2000
M.A., Slippery Rock University, 2004
Ph.D., University of Virginia, 2007
GANG PENG
Assistant Professor of Management
B.S., Shandong University, China, 1992
M.B.A., Southeastern Louisiana University, 1999
Ph.D., University of Washington, 2006
GRACIELA C. PERERA
Assistant Professor of Computer Science and Information Systems
B.S., Metropolitan University, Venezuela, 1992
M.S., Simon Bolivar University, Venezuela, 1997
Ph.D., University of South Florida, 2007
TEDROW L. PERKINS
Professor of Music
B.Mu., California State University at Fullerton, 1975
M.Mu., California State University at Fullerton, 1978
D.M.A., North Texas State University, 1986
DENNIS A. PETRUSKA
Professor of Economics
B.A., University of Pittsburgh, 1973
M.A., The Ohio State University, 1975
Ph.D., The Ohio State University, 1984
KARIN PETRUSKA
Assistant Professor of Accounting and Finance
B.S., Youngstown State University, 1989
M.B.A., Youngstown State University, 1993
JENNIFER PINTAR
Associate Professor of Human Performance and Exercise Science
M.S., University of Pittsburgh, 1995
Ph.D., University of Pittsburgh, 2001
M.P.H., University of Pittsburgh, 2004

ZBIIGNIEW PIOTROWSKI
Professor of Mathematics and Statistics
B.S., University of Wroclaw, Poland, 1974
M.S., University of Wroclaw, Poland, 1976
Ph.D., University of Wroclaw, Poland, 1979

RACHAEL J. POHLE-KRAUZA
Assistant Professor of Human Ecology
B.S., D'Youville College, Buffalo, NY, 2001
M.S., D'Youville College, Buffalo, NY, 2001
Ph.D., University at Buffalo, SUNY, 2007

DAVID H. POLLACK
Associate Professor of Mathematics and Statistics
B.S., University of Illinois, 1976
M.S., University of Illinois, 1982
Ph.D., University of Illinois, 1989

DAVID S. PORTER
Professor of Political Science
B.S., Grand Valley State College, 1975
M.P.A., Grand Valley State College, 1981
M.A., Michigan State University, 1984
Ph.D., Michigan State University, 1987

TOD PORTER
Professor of Economics
B.A., Syracuse University, 1978
M.A., Syracuse University, 1981
Ph.D., Syracuse University, 1984

DOUGLAS M. PRICE
Associate Professor of Civil/Environmental and Chemical Engineering
B.S., Pennsylvania State University, 1984
M.S., University of Notre Dame, 1986
Ph.D., University of Notre Dame, 1988

JAKE J. PROTIVNAK
Assistant Professor of Counseling and Special Education
B.S., Andres University, 1998
M.Ed., Kent State University, 2002
Ph.D., Ohio University, 2005

CLEMENT C. PSENICKA
Professor of Management
B.S., Dyke College, 1969
M.A., Kent State University, 1972
D.B.A., Kent State University, 1976

LASHALE DIANE PUGH
Assistant Professor of Geography
B.S. / B.A., Youngstown State University, 2000
M.S., Youngstown State University, 2002
Ph.D., University of Maryland, 2009

JAMES D. PUSCH
Associate Professor of Educational Foundations, Research, Technology and Leadership
B.S., State University of New York College at Buffalo, 1973
M.S., Russell Sage College, 1976
Ph.D., University of Virginia, 1988

FRANK R. RAGOZZINE
Assistant Professor of Psychology
B.A., Youngstown State University, 1990
M.A., University of California, San Diego, 1993
Ph.D., University of California, San Diego, 1998

THOMAS L. RAKESTRAW JR.
Associate Professor of Management
B.S., Florida State University, 1976
M.S., Purdue University, 1980
Ph.D., Purdue University, 1983

STEVEN M. REALE
Assistant Professor
Dana School of Music
B.A., Indiana University, 2001
M.A., University of Michigan, 2003
Ph.D., University of Michigan, 2009

PETER A. REDAY
Associate Professor of Marketing
B.A., Oakland University, Rochester, Michigan, 1971
M.I.M., American Graduate School of International Management, 1977
Ph.D., Nanyang Technological University, Singapore, 2002

REGINA M. REES
Assistant Professor of Teacher Education
B.S., Youngstown State University, 1974
M.Ed., Youngstown State University, 2000
Ph.D., University of Akron, 2005

STEVEN REESE
Professor of English
B.A., Bucknell University, 1981
M.A., University of Delaware, 1983
Ph.D., University of Delaware, 1988

IAN J. RENNE
Assistant Professor of Biological Sciences
B.S., Syracuse University, 1992
M.S., Clemson University, 1996
Ph.D., Clemson University, 2001

TERESA RILEY
Professor of Economics
B.A., Wittenberg University, 1978
M.A., Syracuse University, 1983
Ph.D., Syracuse University, 1984

NATHAN P. RITCHEY
Professor of Mathematics and Statistics
B.A., Mansfield University of Pennsylvania, 1984
M.S., Carnegie Mellon University, 1986
Ph.D., Carnegie Mellon University, 1989

KEISHA ROBINSON
Assistant Professor of Health Professions
B.S., Xavier University of Louisiana, 1999
M.P.H., St. Louis University, 2002
DrPH, University of Pittsburgh, 2007

STEPHEN E. RODABAUGH
Professor of Mathematics and Statistics
B.A., University of Missouri, 1970
M.A., University of Missouri, 1971
Ph.D., University of Missouri, 1974
ROBERT L. ROLLIN  
Professor of Music  
B.A., City College of New York, 1968  
M.F.A., Cornell University, 1971  
D.M.A., Cornell University, 1973  

JENA ROOT  
Assistant Professor of Dana School of Music  
B.M., Composition, Shenandoah Conservatory, 1993  
M.M., Composition, Syracuse University, 1996  
Ph.D., University of Minnesota, Twin Cities, 2000  

ROCIO ROSALES  
Assistant Professor of Psychology  
B.A., University of Nevada, 2001  
M.S., Southern Illinois University, 2005  
Ph.D., Southern Illinois University, 2009  

ZARA CHARMAINE ROWLANDS  
Assistant Professor of Human Ecology  
B.S., Howard University, 1991  
M.S., Howard University, 1995  
Ph.D., Florida International University, 2003  

JOHN B. RUSSO  
Professor of Management  
B.S., Michigan State University, 1969  
M.S., State University of New York at Brockport, 1973  
Ed.D., University of Massachusetts, 1977  

GARY M. SALVNER  
Professor of English  
B.A., Valparaiso University, 1968  
M.Ed., University of Missouri, 1970  
Ph.D., University of Michigan, 1977  

SALVATORE SANDERS  
Associate Professor of Health Professions  
B.S.A.S., Youngstown State University, 1985  
M.S., University of Akron, 1988  
Ph.D., University of Akron, 2006  

JOHN E. SARKISSIAN  
Professor of Foreign Languages and Literatures  
B.A., Michigan State University, 1971  
Ph.D., Duke University, 1977  

PATRICIA J. SARRO  
Professor of Art  
B.A., Fordham University, 1971  
M.A., University of Missouri, 1975  
M.A., Columbia University, 1988  
M.Phil., Columbia University, 1989  
Ph.D., Columbia University, 1995  

GAIL SAUNDERS-SMITH  
Assistant Professor of Teacher Education  
B.S., Kent State University, 1974  
M.A., Kent State University, 1977  
M.S., Youngstown State University, 1980  
Ph.D., The University of Akron, 1994  

GLENN SCHAFT  
Associate Professor of Dana School of Music  
B.M., Baldwin-Wallace College Conservatory of Music, 1982  
M.A., Eastern Illinois, 1983  
D.M.A., University of Illinois, Champaign-Urbana, 1993  

JAMES J. SCHRAMER  
Professor of English  
B.A., University of Washington, 1966  
M.A., University of Washington, 1974  
Ph.D., University of Minnesota, 1987  

KRIS A. SCHUELLER  
Professor of Computer Science and Information Systems  
B.A., Youngstown State University, 1981  
M.S., Youngstown State University, 1982  
Ph.D., Northwestern University, 1987  

PAMELA A. SCHUSTER  
Professor of Nursing  
B.S.N., The Ohio State University, 1975  
M.S.N., Kent State University, 1982  
Ph.D., Case Western Reserve University, 1990  

MICHAEL S. SERRA  
Associate Professor of Chemistry  
B.S., Biology, Adrian College, Michigan, 1984  
B.A., Mathematics, Adrian College, Michigan, 1984  
Ph.D., Iowa State University, 1990  

KIMBERLY S. SERROKA  
Associate Professor of Nursing  
B.S.N., Youngstown State University, 1987  
M.S.N., Kent State University, 1989  
D.N.P., Case Western Reserve University, 2009  

RAYMOND J. SHAFFER  
Professor of Accounting and Finance  
B.A., Grove City College, 1974  
M.B.A., Youngstown State University, 1985  
D.B.A., University of Kentucky, 1990  

RONALD V. SHAKLEE  
Professor of Geography  
B.A., University of Kansas, 1975  
M.A., University of Kansas, 1979  
Ph.D., University of Kansas, 1983  

JANE L. SHANABARGER  
Associate Professor of Theater and Dance  
A.B., West Virginia University, 1967  
A.M., West Virginia University, 1969  

BRADLEY A. SHELLITO  
Associate Professor of Geography  
B.S., Youngstown State University, 1994  
M.A., Ohio State University, 1996  
Ph.D., Michigan State University, 2001  

ELVIN B. SHIELDS  
Professor of Mechanical and Industrial Engineering  
B.E.M.E., Youngstown State University, 1974  
M.S.M.E., The University of Akron, 1979  
Ph.D., The University of Akron, 1991  

THELMA SILVER  
Associate Professor of Social Work  
B.A., McGill University, 1969  
M.S.W., McGill University, 1971  
Ph.D., Mandel School of Applied Social Sciences, 1995
JOSEF B. SIMEONSSON
Associate Professor of Chemistry
B.S., University of North Carolina, Chapel Hill, 1986
Ph.D., University of Florida, Gainesville, 1990

DAVID SIMONELLI
Associate Professor of History
B.A., University of Connecticut, 1988
M.A., Tulane University, 1991
Ph.D., Tulane University, 2001

HELENE J. SINNREICH
Associate Professor of History
B.A., Smith College, 1997
M.A., Brandeis University, 2003
Ph.D., Brandeis University, 2004

DOLORES V. SISCO
Assistant Professor of English
B.A., University of Baltimore, 1995
M.A., Central Michigan University, 1998
Ph.D., Michigan State University, 2005

WILLIAM B. SLOCUM
Professor of Music
B.F.A., University of New Mexico, 1959
M.M., University of New Mexico, 1965

MELISSA T. SMITH
Professor of Foreign Languages and Literatures
B.A., Barnard College, Columbia University, 1973
M.A., Middlebury College, Vermont, 1976
Ph.D., University of Pittsburgh, 1984

SHANE V. SMITH
Assistant Professor of Geological and Environmental Sciences
B.A., The University of Montana, 1997
M.S., New Mexico State University, 1999
Ph.D., Washington State University, 2005

STEPHANIE SMITH
Associate Professor of Art
B.A., Washington & Lee University, 1989
M.A., Rutgers University, 1998
Ph.D., Rutgers University, 2000

THOMAS SMOTZER
Professor of Mathematics and Statistics
B.M., Baldwin Wallace, 1988
M.S., Indiana University, Bloomington, 1991
Ph.D., Indiana University, Bloomington, 1995

VIRGIL C. SOLOMON
Assistant Professor of Mechanical and Industrial Engineering
Ph.D., Kumamoto University, 2002
Engineer’s Diploma (equiv. BS/M.Sc.), Mechanical Eng.: Gheorghe Asachi Polytechnic Institute, Iasi, Romania

ANGELA SPALSBURY
Associate Professor of Mathematics and Statistics
B.S., Kent State University, 1989
M.A., Kent State University, 1991
M.Sc., University of Pretoria (South Africa), 1992
Ph.D., Kent State University, 1996

PATRICK T. SPEARMAN
Assistant Professor of Educ. Found., Res., Tech., and Ldrshp.
B.A., University of Cincinnati, 1992
M.Ed., University of Cincinnati, 2000
Ph.D., Temple University, 2005

JONATHAN DANA SPERRY
Assistant Professor of Art
B.F.A., Southern Methodist University, 1995
M.F.A., Indiana University, 2001

PAUL A. SRACIC
Professor of Political Science
B.A., Albright College, 1984
M.A., The State University of New Jersey Rutgers, 1990
Ph.D., The State University of New Jersey Rutgers, 1993

GARY L. STANEK
Professor of Mathematics and Statistics
B.S. / M.S., Honors Degree in Chemistry, Moscow State University, Russia, June 1984
M.S., Honors Degree in Chemistry, Moscow State University, Russia, June 1984
Ph.D., Moscow State University, Russia, April 1992

DAVID E. STOUT
Professor and Endowed Chair of Accounting and Finance
Ph.D., University of Pittsburgh Grad. Schl. of Business, 1982

SHARON A. STRINGER
Professor of Psychology
B.S., Georgetown University, 1977
M.S., University of Miami, 1980
Ph.D., University of Miami, 1982

LINDA J. STROM
Associate Professor of English
B.A., Portland State University, Oregon, 1983
M.A., Portland State University, Oregon, 1986
Ph.D., University of Oregon, 1992

WILLIAM G. STURRUS
Professor of Physics and Astronomy
B.S., Hope College, 1983
Ph.D., University of Notre Dame, 1989

DANIEL H. SUCHORA
Professor of Mechanical and Industrial Engineering
B.E., Youngstown State University, 1968
M.S., Youngstown State University, 1970
Ph.D., Case Western Reserve University, 1973
P.E., Ohio

JOHN R. SULLINS
Associate Professor of Computer Science and Information Systems
B.S., Massachusetts Institute of Technology, 1983
M.S., University of Rochester, NY, 1985
Ph.D., University of Maryland, 1990
ALBERT J. SUMELL  
Assistant Professor of Economics  
B.A., Salisbury State University, 1999  
M.A., Georgia State University, 2003  
Ph.D., Georgia State University, 2005

RONALD TABAK  
Professor of Physics and Astronomy  
B.S., Youngstown State University, 1968  
M.S., University of Washington, 1969  
Ph.D., The Ohio State University, 1976

JAMES A. TACKETT  
Professor of Accounting and Finance  
B.S.B.A., Youngstown State University, 1977  
M.B.A., Youngstown State University, 1978  
Ph.D., The Ohio State University, 1983

JAMAL K. TARTIR  
Associate Professor of Mathematics and Statistics  
B.A., Hiram College, 1991  
M.A., Miami University, 1993  
Ph.D., Ohio University, 1998

PADRAIC (“PADDY”) W. TAYLOR  
Assistant Professor of Mathematics and Statistics  
B.A., McDaniel College (fka Western Maryland College), 1999  
M.S., North Carolina State University, 2003  
Ph.D., North Carolina State University, 2006

LINDA J. TESSIER  
Professor of Philosophy and Religious Studies  
B.A., Chapman College, 1982  
M.A., Claremont Graduate School, 1985  
Ph.D., Claremont Graduate School, 1987

MICHAEL THEALL  
Associate Professor of Teacher Education  
B.A., St. Anselms College, 1963  
M.S., Syracuse University, NY, 1976  
Ph.D., Syracuse University, NY, 1980

JULIE E. THOMAS  
Associate Professor of Psychology  
B.A., Sophia College, 1986  
M.A., University of Bombay, 1988  
Ph.D., The University of Tennessee, Knoxville, 1993

STEPHANIE A. TINGLEY  
Professor of English  
B.A., Wittenberg University, 1980  
M.A., University of Illinois at Urbana Champaign, 1981  
Ph.D., University of Illinois at Urbana Champaign, 1987

ALAN E. TOMHAVE  
Assistant Professor of Philosophy and Religious Studies  
B.A., University of Texas at Austin, 1996  
M.A., St. John’s College-Santa Fe, 1997  
Ph.D., University of Missouri, 2008  
M.A., University of Missouri, 2007

MARK F. TONCAR  
Professor of Marketing  
B.B.A., Kent State University, 1979  
M.B.A., Kent State University, 1981  
Ph.D., Kent State University, 1994

HANS TRITICO  
Assistant Professor of Civil, Environmental and Chemical Engineering  
B.S., University of Michigan, 1999  
M.S., Washington State University, 2002  
Ph.D., University of Michigan, 2009

TACIBAH TUREL  
Assistant Professor of Human Ecology  
B.S., Ege University, Izmir, Turkey, 1997  
M.S., Auburn University, 2002  
Ph.D., Auburn University, 2008

JEFFREY L. TYUS  
Assistant Professor of Communication  
B.S.C., School of Telecommunication, Ohio University, 1993  
M.A., School of Telecommunication, Ohio University, 1995  
Ph.D., School of Interpersonal Communication, Ohio University, 1999

JAMES C. UMBLE  
Professor of Music  
B.M., Susquehanna University, 1978  
M.M., Bowling Green State University, 1984  
D.M.A., University of Michigan, 1995

KATHRYN T. UMBLE  
Associate Professor of Music  
B.S., Youngstown State University, 1989  
B.M., University of Michigan, 1983  
M.M., Bowling Green State University, 1985  
D.M.A., Michigan State University, 1998

YOGESH UPPAL  
Assistant Professor of Economics  
B.A., University of Delhi, 1998  
M.A., Delhi School of Economics, University of Delhi, 2000  
Ph.D., The University of California, Irvine, 2006

EBENGE E. USIP  
Professor of Economics  
B.S., State University of New York at Albany, 1974  
M.A., State University of New York at Albany, 1976  
Ph.D., University of Connecticut, 1984

JOHN D. USIS  
Professor of Biological Sciences  
B.S., University of California, 1971  
M.S., Youngstown State University, 1985  
Ph.D., Kent State University, 1990

DANIEL J. VAN DUSSEN  
Assistant Professor of Sociology and Anthropology  
B.A., Mount Union College, 1997  
M.A., The University of Akron, 2001  
Ph.D., University of Maryland (Baltimore), 2005
MAUREEN C. VENDEMIA  
Professor of Health Professions  
B.S. in Ed., The Ohio State University, 1980  
M.Ed., Kent State University, 1982

WILLIAM G. VENDEMIA  
Associate Professor of Management  
B.S. in B.A., The Ohio State University, 1980  
M.B.A., Kent State University, 1981  
Ph.D., Kent State University, 1991

CHARLES B. VERGON  
Professor of Educational Foundations, Research, Technology and Leadership  
B.A., Denison University, 1968  
J.D., University of Michigan Law School, 1971

FRED W. VIEHE  
Professor of History  
B.A., Lewis and Clark College, 1971  
M.A., University of California at Santa Barbara, 1974  
Ph.D., University of California at Santa Barbara, 1983

TERESA A. VOLSKO  
Assistant Professor of Health Professions  
B.S.A.S., Youngstown State University, 1987  
M.H.H.S., Youngstown State University, 2004  
A.A.S., Youngstown State University, 1981

RICHARD W. VAN VOORHIS  
Assistant Professor of Counseling and Special Education  
B.A., Ohio University, 1990  
M.A., The Ohio State University, 1992  

MARK VOPAT  
Assistant Professor of Philosophy and Religious Studies  
B.A., Cleveland State University, 1994  
M.A., Cleveland State University, 1996  
Ph.D., University of Western Ontario, 2003

BRIAN D. VUKSANOVICH  
Assistant Professor of Engineering Technology  
B.E.M.E., Youngstown State University, 1992  
M.S.M.E., Youngstown State University, 1996

NANCY WAGNER  
Associate Professor of Nursing  
B.S.N., University of Cincinnati, 1977  
M.S.N., Indiana University, 1983  
D.N.P., Case Western Reserve University, 2009

PATRICIA BERGUM WAGNER  
Assistant Professor of Criminal Justice and Forensic Sciences  
B.A., University of Texas, 1979  
M.A., University of Texas, 1982  
J.D., Northwestern University School of Law, 1985

TIMOTHY R. WAGNER  
Professor of Chemistry  
B.S., University of Wisconsin, 1981  
Ph.D., Arizona State University, 1986

THOMAS P. WAKEFIELD  
Assistant Professor of Mathematics and Statistics  
B.S., Youngstown State University, 2002  
M.A., Kent State University, 2004  
Ph.D., Kent State University, 2008  
B.A., Youngstown State University, 2002

GARY R. WALKER  
Professor of Biological Sciences  
B.A., University of Colorado, 1977  
Ph.D., Wayne State University, 1984

RICHARD L. WALKER  
Professor of Human Performance and Exercise Science  
B.A., East Carolina University, 1971  
M.Ed., East Carolina University, 1972

DARRELL R. WALLACE  
Assistant Professor of Mechanical and Industrial Engineering  
B.S.M.E., The Ohio State University, 1995  
M.S.M.E., The Ohio State University, 1998  
Ph.D., The Ohio State University, 2006

BRUCE N. WALLER  
Professor of Philosophy and Religious Studies  
B.A., Louisiana Tech University, 1968  
M.A., University of North Carolina, 1975  
Ph.D., University of North Carolina, 1979

YAOQIN WANG  
Associate Professor of Economics  
B.A., Beijing Tech & Business Univ., 1997  
Ph.D., University of Kansas, 2002

ALICE M. WANG  
Assistant Professor of Dana School of Music  
B.M., University of Southern California, 1998  
M.M., Royal Conservatory of Music in Antwerpe (Belgium), 2000  
D.M.A., The University of Texas at Austin, 2007

YING WANG  
Assistant Professor of Marketing  
B.A., People’s University of China, 1993  
M.A., Kent State University, 1998  
Ph.D., Kent State University, 2006

VICTOR WAN-TATAH  
Professor of Philosophy and Religious Studies  
M.T.S., Harvard Divinity School, 1979  
Th.D., Harvard Divinity School, 1984

ROBERT E. WARDLE  
Assistant Professor of Criminal Justice and Forensic Sciences  
B.S., Criminal Justice, Youngstown State University, 1998  
M.S., (Chemistry), Youngstown State University, 2007  
M.S., in Pharmaceutical Science with concentration in Forensic Science, University of Florida, 2010

HOMER B. WARREN  
Associate Professor of Marketing  
B.S. in B.A., Youngstown State University, 1973  
M.A., Youngstown State University, 1977  
D.B.A., Kent State University, 1987
JANE WETZEL
Associate Professor of Physical Therapy
B.A., Ohio Wesleyan University, 1975
M.S., University of Southern California, 1987
Ph.D., University of Pittsburgh, 2001
Certificate, Physical Therapy, Univ. of Pittsburgh, 1976

JOHN C. WILCOX
Professor of Music
Mus.B., Florida State University, 1973
Master of Music, Kent State University, 1986

JANET L. WILLIAMS
Professor of Teacher Education
B.S., Clarion State College, 1971
M.Ed., Clarion State College, 1974
Ph.D., The Ohio State University, 1979

ERIC J. WINGLER
Professor of Mathematics and Statistics
B.S., Eastern Illinois University, 1974
M.A., Eastern Illinois University, 1975
Ph.D., University of Illinois, 1982

FRAN MARIE WOLF
Professor of Accounting and Finance
B.A., Miami University, Oxford, OH, 1974
M.B.A., Youngstown State University, 1988
Ph.D., Kent State University, 1994

NANCY ANDERSEN WOLFGANG
Instructor of Theater and Dance / Dana School of Music
B.A., University of California at Santa Barbara, 1990
Master of Music, The Boston Conservatory, 1996
Master of Music, California State University, Fresno, 1992

MARK D. WOMBLE
Associate Professor of Biological Sciences
B.S., Texas Christian University, 1975
M.S., University of Kentucky, 1978
Ph.D., The University of Michigan, 1983

JENNIE M. WOOD
Associate Professor of Nursing
L.P.N., Salem Vocational School, 1971
A.A.S., Youngstown State University, 1977
B.S.N., Youngstown State University, 1982
M.S.N., Kent State University, 1986
Ph.D., Kent State University, 2008

PETER WOODLOCK
Professor of Accounting and Finance
B.S.B.A., Youngstown State University, 1979
M.S., Ohio State University, 1990
Ph.D., Ohio State University, 1990

MARY YACOVONE
Assistant Professor of Health Professions
B.S., Youngstown State University, 1982
M.S., Kent State University, 1990

XIAOLOU YANG
Assistant Professor of Accounting and Finance
B.A., Jilin University, China, 1996
M.S., The University of Texas at Austin, 2003
Ph.D., The University of Texas at Austin, 2006

GEORGE YATES
Associate Professor of Mathematics and Statistics
B.S., Purdue University, 1971
M.S., California Institute of Technology, 1972
Ph.D., California Institute of Technology, 1977

ANNE YORK
Professor of History
B.A., University of California at Los Angeles, 1974
M.A., University of California at Los Angeles, 1979
Ph.D., University of California at Los Angeles, 1992

MISook YUN
Associate Professor of Dana School of Music
B.M., Han-Yang University, Korea, 1986
M.M., Han-Yang University, Korea, 1989
M.M., The University of Oregon, 1995
D.M.A., The University of Oregon, 1999

YONG ZHANG
Assistant Professor of Computer Science and Information Systems
B.S., Ocean University of QingDao, China, 1986
M.S., University of South Florida, 2001
M.S., Ocean University of QingDao, China, 1989
Ph.D., University of South Florida, 2005